Biological and Oceanographic Data from the Harmful Algae Monitoring Program Associated with Salmon Farm Sites on the West Coast of Canada in 2000

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BIOLOGICAL AND OCEANOGRAPHIC DATA FROM THE HARMFUL ALGAE MONITORING PROGRAM ASSOCIATED WITH SALMON FARM SITES ON THE WEST COAST OF CANADA IN 2000

by

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ABSTRACT

Haigh, N., Whyte, J.N.C., and Sherry, K.L. 2004. Biological and oceanographic data from the harmful algae monitoring program associated with salmon farm sites on the west coast of Canada in 2000. Can. Data Rep. Fish. Aquat. Sci. 1155: 307 p.

This report presents the results of the second year of the Harmful Algae Monitoring Program, which was initiated in 1999 by Fisheries and Oceans Canada in collaboration with the salmon aquaculture industry in British Columbia. Sampling done weekly at farm sites provided data on: phytoplankton species, including those harmful or potentially harmful to finfish; phytoplankton biomass and dominant groups; nutrient (nitrate, phosphate and silicate) levels; and environmental parameters such as temperature, salinity, and dissolved oxygen. In 2000 the sampling period was from mid-May to late November, and 28 sites around Vancouver Island were monitored.

RÉSUMÉ

Haigh, N., Whyte, J.N.C., and Sherry, K.L. 2004. Biological and oceanographic data from the harmful algae monitoring program associated with salmon farm sites on the west coast of Canada in 2000. Can. Data Rep. Fish. Aquat. Sci. 1155: 307 p.

Ce rapport présente les résultats de la deuxième année du programme de surveillance des algues toxiques, lequel a été initié en 1999 par Pêches et Océans Canada en collaboration avec l'industrie aquicole de la Colombie Britannique. Un échantillonnage hebdomadaire aux sites de mariculture a fourni des données sur la composition des espèces phytoplanctoniques, incluant les algues toxiques ou potentiellement nocives aux poissons, ainsi que sur la biomasse phytoplanctonique et les groupes dominants, les niveaux des sels nutritifs (nitrate, phosphate, silicate), et les paramètres environnementaux tels la température, salinité, et l'oxygène dissous. En 2000, la période d'échantillonnage était de la mi-mai à la fin novembre, et 28 sites autour de l'île de Vancouver ont été échantillonnés.

ACKNOWLEDGEMENTS

The Harmful Algae Monitoring Program was funded by the salmon aquaculture industry in British Columbia. In 2000 companies contributing to the program were Pacific Aqua Sea Foods, Stolt Sea Farm, Omega Salmon Group, Pacific National Aquaculture, Marine Harvest Canada, Heritage Aquaculture, Creative Salmon, Blue Tornado, and Liard Aquaculture. We would like to acknowledge this support, and the efforts of company personnel who helped to keep the program running, in particular Terry Nielsen and Darrell Volker of PASF. We would also like to thank the farm personnel who carried out the sampling at the monitoring sites and who communicated with us in the instances of harmful algal blooms at salmon aquaculture operations around the coast of British Columbia.

INTRODUCTION

The Harmful Algae Monitoring Program (HAMP) was started in the summer of 1999 with the motivation of Terry Nielsen and Darrell Volker of Pacific Aqua Salmon Farmers (PASF), in co-operation with Dr J.N.C. (Ian) Whyte of Fisheries and Oceans Canada and Nicky Haigh. In 1999 three farm companies (Omega Salmon Group, Stolt Sea Farm, and PASF) took part in the program, with 18 sites around Vancouver Island sampled weekly from mid-June to the end of October. HAMP expanded in 2000 to include six more companies and 11 more sampling sites. Figure 1 shows the HAMP sampling sites for 2000. The sampling season was extended from 1999 to 2000; in 2000 it started May 15 and continued until the end of November.

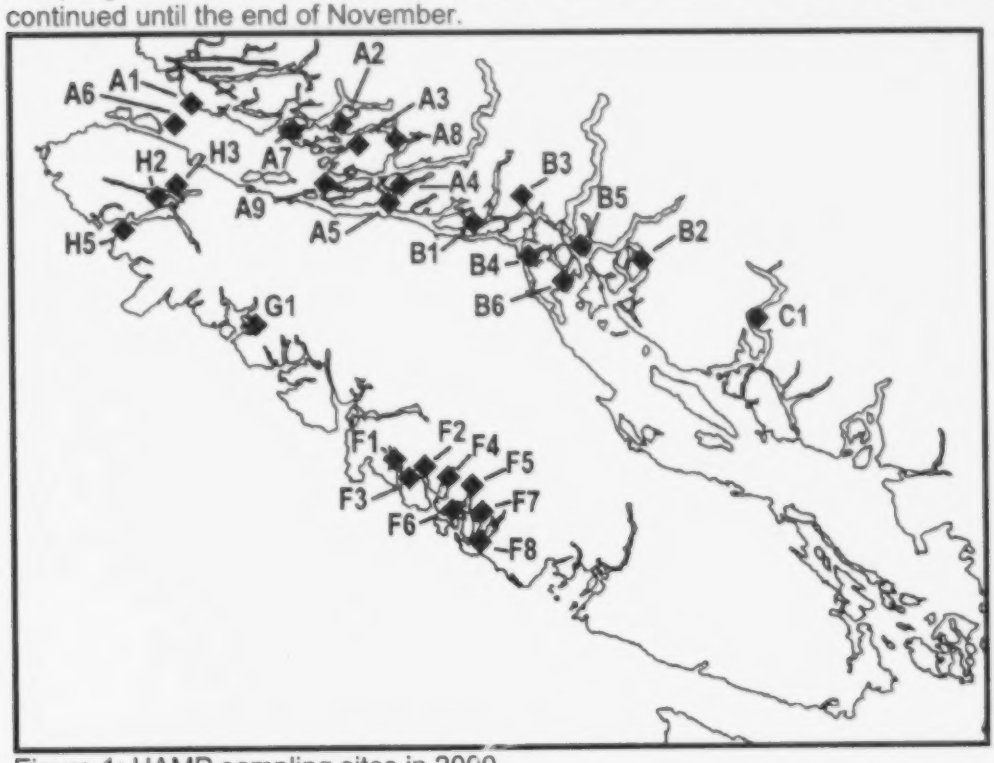

Figure 1: HAMP sampling sites in 2000.

A1	Shelter Bay	B1	Chancellor Channel	F4	Gibson Cove
A2	Simoom Sound	B2	Homfray Creek	F5	Bedwell Sound
A3	Viner Sound	B3	Fanny Bay	F6	Cypre Bay
A4	Warren Islands	B4	Brougham Point	F7	Warn Bay
A5	Boughy Bay	B5	Raza Island	F8	McCalls site
A6	Shelter Pass	B6	Dunsterville site	G1	Amai Inlet
A7	Greenway Sound	C1	Glacial Creek	H2	Thorpe Point
A8	Brown Point	F1	Pretty Girl Cove	H3	Coal Harbour
A9	Larsen Island	F2	Bacchante Bay	H5	Koskimo Bay
		F3	Shelter Channel		

This report summarises the HAMP sample data for 2000. Tables present the results of sample analyses for phytoplankton species, dominant species name and counts, estimated total phytoplankton biomass, and percentage of sample biomass in five constituent groups: diatoms, dinoflagellates, raphidophytes, other flagellates, and microzooplankton. The presence of algal species that are harmful or potentially harmful to fish are illustrated in figures for each site monitored. For sites where environmental parameters were provided by the farm companies, graphs of water temperature, dissolved oxygen (DO), and salinity are presented collectively as a figure for each site. Similarly, water parameters as concentration of silicate, phosphate, and nitrate are graphically illustrated for sites where samples were collected in 2000 (Simoom Sound, Boughy Bay, Homfray Creek, Glacial Creek, Pretty Girl Cove, Bedwell Sound, Amai Inlet, Thorpe Point, and Koskimo Bay).

MATERIALS AND METHODS

PLANKTON SAMPLE COLLECTION

Samples for analyses were collected weekly by farm site personnel. Discrete 100 mL water samples were collected, usually using home-made sampling bottles, from 1m, 5m, and 10 metre depths, and were preserved with Lugol's iodine solution. Samples were then forwarded by courier to the Pacific Biological Station (PBS) in Nanaimo.

PLANKTON SAMPLE ANALYSIS

Plankton sample were analysed usually on the day water samples were received. Samples were resuspended by mixing gently, and a 1 mL aliquot was pipetted into a plastic Sedgewick Rafter cell and allowed to settle for at least five minutes. The whole rafter slide was scanned using a Leitz Wetzlas Dialux microscope: the first 20% of the slide was examined at 100X magnification, and the remainder at 40X, shifting up to 100X when necessary to aid identification of species. All species were identified to highest practicable level, and registered on data sheets. Non-harmful or difficult to differentiate species were sometimes grouped into genus or type (e.g. *Thalassiosira* species as diatoms were grouped together, and gymnodinioid type dinoflagellates were grouped together). In the data sheets each species in the genus or group were given a mark in the corresponding box. If harmful species were present in the sample a count was made of those species (see "Counting Technique"). The dominant species or group in each sample was identified and counted. Total biomass in the sample was estimated on a scale of 1(very low) to 5 (very high). Proportion of total biomass in each of five groups (diatoms, dinoflagellates, raphidophytes, other flagellates, and microzooplankton) was approximated. Analysis of each sample usually took 20-40 minutes.

COUNTING TECHNIQUE

Most enumeration data from HAMP 2000 algae samples are approximate counts, with less than 100 cells counted for the calculation of cells/mL. In sample data after September 2000, a tilde (~) was used to differentiate approximate counts from "more accurate counts", where more than 100 cells of the species or group in question were enumerated. However, before this counting standard was instituted most counts must be assumed to be approximate, and only those where cell concentrations are 1000 cells/mL or greater are likely to be calculated from counts of 100 cells or more. Plankton tends to settle non-randomly in Sedgewick Rafter cells, with greater accumulations around the edges than in the middle of the slide, so more accurate counts were usually done across the middle section of the slide, including a balance of edge and middle squares. Enumeration of harmful algal species often produced approximate counts, as levels were generally less than 100 cells/mL except during blooms, and analysis time constraints usually made it impracticable to count the alga in more than a few rows of the slides.

ENVIRONMENTAL MONITORING

Data sheets for environmental monitoring were provided to the HAMP participant companies. These sheets were to be completed with water temperature, salinity, dissolved oxygen, and other environmental data for the sampling depths at the time and place HAMP samples were taken. This data was then to be sent to PBS for compilation and archiving. This data collection was done to varying degrees by different farm companies and at different sampling sites.

NUTRIENT SAMPLE COLLECTION AND ANALYSIS

Certain HAMP sites were selected for nutrient sampling based on siting and company participation; this sampling was done concurrent with that for phytoplankton analysis. Particulate matter was filtered out using Fisherbrand G4 microfibre filters (1.2 µm particle retention size) in Swinnex holders attached to 60 mL plastic syringes; filtrate was frozen in 30 mL acid-washed HDPE Nalgene bottles for later analysis. At the end of the sampling season, all collected and preserved samples were analysed for nitrate (including nitrite), phosphate and silicate concentrations using a Technicon AutoAnalyzer.

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Table 1 : Diatoms in Shelter Bay samples.

date	17-May			25-May			01-Jun			15-Jun			22-Jun			29-Jun			06-Jul			13-Jul			27-Jul			17-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.										1																				
Amphiproral Tropidoneis																														
Asterionella japonica																													1	
Bacteriastrum sp.																														
Biddulphia sp.			1			1			1								1													
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus													1																	
Chaetoceros sp.	1	2	1	2	4	3	3	6	4	6	5	7	3	3	4	2	2	3	3	6	5		1	1	1	3	3	4	6	4
Corethron hystrix																														
Coscinodiscus sp.						1					1																			
Cylindrotheca closterium				1				1		1	1						1			1		1	1	1		1		1		
Dactylisolen sp.																														
Detonula pumila							1	1									1									1				
Ditylum brightwellii											1		1	1	1	1	1	1	1	1										1
Eucampia zoodiacus																							1					1	1	1
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata						1								1	1															
Leptocylindrus danicus						1	1					1		1		1	1	1								1	1	1	1	1
Leptocylindrus minimus																														
Licmophora sp.	1	1							1									1												1
Melosira sp.	1						1	1									1													
Navicula sp.						1	2	1		2	2	1						1		1	1								1	
Nitzschioid sp.		1	1	2	1	1	2	1	1		1	1			1	1	1		1	1				1	1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.																														1
Rhizosolenia setigera																	1				1				1	1	1	1	1	1
Rhizosolenia sp. (pointy)																											1			
Rhizosolenia sp. (blunt)											1		1	1			2								1				1	1
Rhizosolenia stolterfothii				1								1																1		
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1		1	1	1
Stephanopyxis sp.					1			1	1		1																			
Thalassionema sp.				1	1					1		1	1	1		1	1	1		1					1					
Thalassiosira sp.	1	1	1	1	1	1	1	1	2	1	1	1	1	1		1	2	1	1	1	1		1	1	1	1	1	1	1	2

Table 1 cont'd

date	07-Sep			23-Sep			05-Oct			19-Oct			02-Nov			16-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																		
Achnanthes sp.																		
Amphiprora/ Tropidoneis																		
Asterionella japonica																		
Bacteriastrum sp.																		
Biddulphia sp.																		
Campylosira/Plagiogramma																		
Cerautalina sp.																		
Chaetoceros concavicorne																		
Chaetoceros convolutus																		
Chaetoceros sp.	2	4	4	3	2	2	1	1										
Corethron hystrix																		
Coscinodiscus sp.					1													
Cylindrotheca closterium																		
Dactylisolen sp.																		
Detonula pumila																		
Ditylum brightwellii	1	1		1				1										
Eucampia zoodiacus	1	1	1															
Grammatophora sp.																		
Hemialus sp.																		
Lauderia annulata																		
Leptocylindrus danicus	1	1	1	1	1	1												
Leptocylindrus minimus																		
Licmophora sp.				1														
Melosira sp.																		1
Navicula sp.	1				1	1			1									
Nitzschioid sp.	1	1	1	1	1	1		1										
Pleurosigma/ Gyrosigma sp.					1													
Rhizosolenia setigera	1	1	1	1	1	1												
Rhizosolenia sp. (pointy)																		
Rhizosolenia sp. (blunt)		1	1			1		1	1									
Rhizosolenia stolterfothii		1																
Skeletonema costatum	1	1	1					1										
Stephanopyxis sp.																		
Thalassionema sp.	1	1			1	1		1				1						
Thalassiosira sp.	1	1	1	2	2	2	1	1	2	1	1	1			1			

Table 2 : Dinoflagellates in Shelter Bay samples.

date	17-May			25-May			01-Jun			15-Jun			22-Jun			29-Jun			06-Jul			13-Jul			27-Jul			17-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																											1			
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																						1				1	1			
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																						1				1		2		
Dinophysioid sp.	1						1			1	1																			
Gonyaulacoid sp.											1																			
Gymnodinioid sp.				2	1	1	1	1	2		1	1	2	2	1	1	3		1	1	1	1	2	2	1	3	4	1	2	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type					2					1																1	1			1
Heterocapsa triquetra																						1								
Noctiluca scintillans																				1										
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																										1	1			
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.						1			2	2	3	2					2	1					2	1	2	4	2	2	1	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 2 cont'd

date	07-Sep			23-Sep			05-Oct			19-Oct			02-Nov			16-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																		
Alexandrium sp.																		
Amphidinium sp.					1	1												
Ceratium divericatum																		
Ceratium furca																		
Ceratium fusus																		
Ceratium lineatum																		
Ceratium sp.																		
Cochlodinium sp.																		
Cochlodinium polykrikoides		1	1	1	1	1						1						
Dinophysioid sp.																		
Gonyaulacoid sp.					1								1	1	1	1		1
Gymnodinioid sp.	1	1	1	2	2	2		1	1							1		
Gymnodinium galatheanum																		
Gyrodinium spirale-type	1			1								1						
Heterocapsa triquetra																		
Noctiluca scintillans																		
Noctilucoid sp.																		
Oxyrrhis marina																		
Oxytoxum sp.																		
Polykrikos sp.																		
Prorocentrum gracile	1	1	1															
Prorocentrum micans																		
Prorocentrum sp.																		
Protoperidinioid sp.	1	1	1	5	2	2								1			1	
Pyrocystis lunula																		
Raphidophytes																		
Heterosigma akashiwo																		

Table 3 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Shelter Bay samples.

date	17-May			25-May			01-Jun			15-Jun			22-Jun			29-Jun			06-Jul			13-Jul			27-Jul			17-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum							1					1	1						1	1		1								
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid								1										1		1										
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	4	3	3	3	4	4	3	3	4	3	3	3	4	3	3	2	2	2	5	5	3	2	3	3	4	3	4
Zooplankton																														
Appendicularian																														
Ciliate			1	2	1	2	2			5	2	4	1	2	1	1			2	2	2	2	3	1	1	1	2	1		1
Copepod																														
Nauplius							1	1																						
Pluteus																														
Rotifer																														
Tintinnid									1																					
Zoea																														
other																														
Dominant Species/Group																														
name	*Melosira moniliformis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Dityium brightwellii*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp*	*Dictyocha speculum*	*Thalassiosira sp.*	*Thalassiosira sp*	*Thalassiosira sp.*	*Chaetoceros spp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*
count (cells/mL)	32	40	28	80	1400	400	220	360	130	1500	640	440	140	260	160	25	660	500	100	200	100	3	11	5	10	60	30	100	240	80
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	96	96	96	74	85	85	90	94	93	75	74	80	91	86	95	95	90	95	75	90	90	10	35	45	75	60	56	83	95	96
Dinoflagellates	3	0	0	10	9	10	5	3	5	10	20	10	5	8	2	3	9	2	5	4	3	30	34	40	20	37	40	15	4	3
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	4	2	1	1	1	2	1	1	1	1	2	2	1	1	1	1	2	10	3	2	30	1	1	1	1	1	1	1	1
Zooplankton	0	0	2	15	5	4	3	2	1	14	5	8	2	5	2	1	0	0	10	3	5	30	30	14	4	2	3	1	0	0
Biomass	2.5	2.0	1.5	2.5	3.5	3.0	3.5	4.0	3.5	3.0	3.0	3.0	2.5	3.0	2.5	3.0	3.0	3.0	1.5	2.5	2.0	1.0	1.0	1.0	1.0	2.0	1.5	3.0	3.5	3.0

Table 3 cont'd

date	07-Sep			23-Sep			05-Oct			19-Oct			02-Nov			16-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																		
Cryptomonads																		
Dictyocha speculum	1	1	1					1										
Dinobryon balticum																		
Ebria tripartita																		
Euglenoid						1												
Phaeocystis pouchetii																		
Radiolarian																		
unid. Nanoflagellates	4	3	3	5	3	4	3	4	2	5	5	4	5	3	4	5	3	3
Zooplankton																		
Appendicularian																		
Ciliate	2	2	1	5	6	4	1	2			1	2		1	2	2	2	1
Copepod		1																
Nauplius															1			
Pluteus																		
Rotifer																		
Tintinnid						2												
Zoea																		
other																		
Dominant Species/Group																		
name	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Pseudonitzschia sp.*	*Thalassiosira eccentrica*	diatoms	*Thalassiosira spp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassionema sp.*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	ciliates	ciliates	ciliates
count (cells/mL)	680	730	1400	20	19	300	~20	~20	~10	1	4	10	2	10	2	50	10	4
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	84	90	45	45	55	90	80	92	25	70	40	0	0	15	0	0	0
Dinoflagellates	17	12	8	40	40	30	0	5	5	0	0	25	40	70	30	20	10	15
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	3	2	2	5	10	3	75	10	5	60	10	15	5	10	35
Zooplankton	2	3	1	12	13	13	5	5	0	0	20	30	0	20	40	75	80	50
Biomass	4.0	4.0	4.5	3.0	2.5	3.0	2.0	1.5	1.5	1.0	1.0	1.5	1.0	1.5	1.0	2.0	1.5	1.0

Table 4 : Diatoms in Shelter Pass samples.

date	24-May			01-Jun			08-Jun			14-Jun			22-Jun			06-Jul			12-Jul			26-Jul			01-Aug			10-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.		1		1	1			1						1																
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus						1		1																						
Chaetoceros sp.	3	2	2	6	6	4	6	4	6	8	8	5	3	7	6	4	4	4	1	1	1	7	8	6			1	2	2	2
Corethron hystrix																														
Coscinodiscus sp.				1																										
Cylindrotheca closterium	1			1		1					1		1					1											1	
Dactyliosolen sp.																														
Detonula pumila				1	1																									
Ditylum brightwellii							1			1	1	1	1	1	1	1	1				1									
Eucampia zoodiacus																1	1					1								
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata	1						1	1								1														
Leptocylindrus danicus				1	1	1	1	1			1	1	1			1	1	1				1	1	1			1		1	1
Leptocylindrus minimus																														
Licmophora sp.					1						1																			
Melosira sp.						1		1		1							1		1											
Navicula sp.			1	2	2	1			1	1	1																			
Nitzschioid sp.	1		1	2	1	1	1	1		1		1	1	2	1	1						1	1	1				1	1	
Pleurosigma/ Gyrosigma sp.				1																										
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																		1												
Rhizosolenia sp. (blunt)						1					1	1			1															
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1					1	1	1		1				
Stephanopyxis sp.				1					1																					
Thalassioneme sp.		1		1						1	1	1	1	1	1	1		1	1				1	1				1		
Thalassiosira sp.	1	1	1	1	2	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1

Table 4 cont'd

date	24-Aug			06-Sep			15-Sep			21-Sep			27-Sep			10-Oct			19-Oct			25-Oct			02-Nov			06-Nov			15-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																																	
Achnanthes sp.																																	
Amphiproral Tropidoneis																																	
Asterionella japonica																																	
Bacteriastrum sp.																																	
Biddulphia sp.																																	
Campylosira/Plagiogramma																																	
Cerataulina sp.																																	
Chaetoceros concavicorne															1																		
Chaetoceros convolutus																																	
Chaetoceros sp.		1	1	2	1	1	1				1	3	2	2	2				1		1												
Corethron hystrix																																	
Coscinodiscus sp.			1	1						1																							
Cylindrotheca closterium																																	
Dactyliosolen sp.																																	
Detonula pumila													1																				
Ditylum brightwellii				1	1		1				1			1	1																		
Eucampia zoodiacus	1			1	1	1				1		1																					
Grammatophora sp.																																	
Hemiaulus sp.																																	
Lauderia annulata																																	
Leptocylindrus danicus	1	1		1		1							1	1	1					1													
Leptocylindrus minimus																																	
Licmophora sp.																																	
Melosira sp.																																	
Navicula sp.			1								1			1																			
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1															
Pleurosigma/ Gyrosigma sp.													1																				
Rhizosolenia setigera	1	1	1	1	1			1	1	1	1	1	1	1																			
Rhizosolenia sp. (pointy)														1	1	1																	
Rhizosolenia sp. (blunt)																																	
Rhizosolenia stolterfothii																																	
Skeletonema costatum	1									1			1																				
Stephanopyxis sp.																																	
Thalassioneme sp.	1					1	1	1	1			1	1		1					1													
Thalassiosira sp.	1	1	1	1	1	1	1		1	1		1	2	2	2	1		1		1		1	1			1	1		1				1

Table 5 : Dinoflagellates in Shelter Pass samples.

date	24-May			01-Jun			08-Jun			14-Jun			22-Jun			06-Jul			12-Jul			26-Jul			01-Aug			10-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.											1																			
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																							1							
Cochlodinium sp.																														
Cochlodinium polykrikoides																														
Dinophysioid sp.			1	1					1							1	1		1				1	1						
Gonyaulacoid sp.																													2	1
Gymnodinioid sp.	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	3	2	1		1			
Gymnodinium galatheanum																														
Gyrodinium spirale-type					1									1							1		1	1						
Heterocapsa triquetra																					1	1	1	1						
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																												1		
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.				1	2	2	2	1	3	4	2	1			1			1			1	2	2	1		1				1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 5 cont'd

date	24-Aug			06-Sep			15-Sep			21-Sep			27-Sep			10-Oct			19-Oct			25-Oct			02-Nov			06-Nov			15-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																																	
Alexandrium sp.																																	
Amphidinium sp.																																	
Ceratium divericatum																																	
Ceratium furca																																	
Ceratium fusus																1																	
Ceratium lineatum																																	
Ceratium pentagonum																																	
Ceratium sp.																																	
Cochlodinium sp.		1																															
Cochlodinium polykrikoides									1	1			1	1																			
Dinophysioid sp.													1																				
Gonyaulacoid sp.																	1	1			1	1	1	1	1	1	1	1	1				
Gymnodinioid sp.	1	1		1				1	1			1	1	2				1	1	1	1									1		1	
Gymnodinium galatheanum																																	
Gyrodinium spirale-type	2										1		1	1				1															
Heterocapsa triquetra																																	
Noctiluca scintillans																																	
Noctilucoid sp.																																	
Oxyrrhis marina																																	
Oxytoxum sp.																																	
Polykrikos sp.																																	
Prorocentrum gracile	1						1		1	1																							
Prorocentrum micans																																	
Prorocentrum sp.																							1					1	1	1			
Protoperidinioid sp.	1	1			1	1		1	1	1		1	3	1	2																		
Pyrocystis lunula																																	
Raphidophytes																																	
Heterosigma akashiwo																																	

Table 6 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Shelter Pass samples.

date	24-May			01-Jun			08-Jun			14-Jun			22-Jun			06-Jul			12-Jul			26-Jul			01-Aug			10-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum								1		1		1	1	1	1	1	1		1	1										
Dinobryon balticum																														
Ebria tripartita							1																							
Euglenoid				1																										
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	4	3	3	3	3	4	2	4	4	3	2	3	3	3	3	4	3	4	3	3	3	4	3	3	3	3	5	3
Zooplankton																														
Appendicularian																														
Ciliate		1	1	2	1		1	1	1	4	4	3	2	1	3		1	1		3	3	1	2	1			2	1	2	1
Copepod																														
Nauplius				1								1														1				
Pluteus																														
Rotifer																														
Tintinnid			1	1	1	1				1					1															
Zoea																														
other																														
Dominant Species/Group																														
name	Chaetoceros wighami	Chaetoceros wighami	Chaetoceros wighami	Skeletonema costatum	Skeletonema costatum	Skeletonema costatum	Skeletonema costatum	Chaetoceros spp.	Chaetoceros spp.	Chaetoceros spp.	Chaetoceros spp.	Chaetoceros spp.	Chaetoceros spp.	Chaetoceros spp.	Dityum brightwelli	Chaetoceros spp.	Chaetoceros spp.	Chaetoceros spp.	Dinophysis sp.	Thalassiosira sp.	ciliates	Chaetoceros spp.	Chaetoceros spp.	Chaetoceros spp.	Thalassiosira sp.	diatoms	diatoms	Pseudonitzschia sp.	Chaetoceros spp.	Chaetoceros spp.
count (cells/mL)	1100	800	400	340	250	380	200	2620	2260	4700	4000	2500	680	1060	40	1100	1400	400	3	10	15	5600	3000	1500	3	5	7	6	50	15
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	88	80	80	85	89	88	92	88	90	90	89	85	90	83	83	93	93	40	40	25	90	86	85	74	59	49	70	90	86
Dinoflagellates	9	9	15	11	10	8	10	6	10	5	5	6	3	5	10	15	4	5	35	18	35	7	10	11	25	20	20	10	5	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	2	2	1	25	2	1	1	1	1	1	1	1	10	1	1
Zooplankton	0	2	4	8	4	2	1	1	1	4	4	4	10	2	5	0	1	1	0	40	39	2	3	3	0	20	30	10	4	3
Biomass	2.5	3.5	3.0	4.0	4.0	4.0	3.0	3.5	3.5	3.0	3.0	3.0	2.5	3.0	3.0	2.5	2.5	2.0	1.0	1.0	1.0	4.0	4.0	3.5	1.0	1.0	1.0	1.0	1.5	1.0

Table 6 cont'd

date	24-Aug			06-Sep			15-Sep			21-Sep			27-Sep			10-Oct			19-Oct			25-Oct			02-Nov			06-Nov			15-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																																	
Cryptomonads																																	
Dictyocha speculum	1											1					1					1					1						
Dinobryon balticum														1																			
Ebria tripartita																																	
Euglenoid																																	
Phaeocystis pouchetii																																	
Radiolarian																																	
unid. Nanoflagellates	2	2	2	5	3	3	4	5	3	3	3	3	5	2	2	5	5	3	4	5	5	3	3	5	3	4	4	6	4	4	5	3	5
Zooplankton																																	
Appendicularian																																	
Ciliate	1	1		1	2	1		1		1		1	2	2		1	1						1		1	1	1	2	1	1	1	1	1
Copepod																																	
Nauplius	1						1					1	1							1													
Pluteus																																	
Rotifer																																	
Tintinnid														1																			
Zoea																																	
other																																	
Dominant Species/Group																																	
name	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Thalassiosira spp*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gymnodinium sp.*	*Thalassiosira sp.*	*Gymnodinium sp.*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Protoperidinium sp.*	*Protoperidinium sp.*	*Protoperidinium sp.*	*ciliates*	*Gymnodinium sp.*	*Thalassiosira sp.*
count (cells/mL)	1200	1100	1300	800	1100	1500	710	530	1150	660	510	380	60	~30	~40	10	3	5	2	5	3	8	5	5	6	7	4	2	2	1	1	1	2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	95	96	99	92	94	95	95	93	90	85	96	90	60	65	90	65	0	40	35	60	20	10	20	0	0	30	0	0	15	0	0	0	40
Dinoflagellates	3	2	0	5	2	3	3	5	9	12	2	7	30	20	9	15	40	50	40	25	70	70	50	75	70	50	75	40	45	30	0	20	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	1	1	1	1	1	1	2	3	1	10	40	10	25	5	10	20	10	25	10	10	10	40	30	60	80	65	40
Zooplankton	1	1	0	2	3	1	1	1	0	2	1	2	8	12	0	10	20	0	0	10	0	0	20	0	20	10	15	20	10	10	20	15	20
Biomass	3.5	3.5	3.5	4.0	4.0	4.0	3.5	3.0	4.0	3.5	3.0	3.0	2.5	2.5	2.5	1.5	1.0	1.5	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Table 7 : Diatoms in Greenway Sound samples.

date	19-May			31-May			07-Jun			20-Jun			29-Jun			05-Jul			12-Jul			19-Jul			23-Aug			29-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																													1	1
Amphiprora/ Tropidoneis																										1		1	1	1
Asterionella japonica																														
Bacteriastrum sp.																														1
Biddulphia sp.											1																			
Campylosira/Plagiogramma																														
Cerautalina sp.	1	1																												
Chaetoceros concavicorne																														
Chaetoceros convolutus					1																									
Chaetoceros sp.	3	2	3		3	2	2	1	1	2	4	2	2	4	3	4	7	3	2	3	3	2	5	4	5	9	5	5	5	6
Corethron hystrix																	1												1	
Coscinodiscus sp.							1																							
Cylindrotheca closterium								1						1									1	1	1	1		1	1	1
Dactylisolen sp.															1										1	1		1	1	1
Detonula pumila							1				1	1	1	1	1	1						1	1	1	1	1	1	1	1	1
Ditylum brightwellii												1										1		1				1		1
Eucampia zoodiacus																														
Fragilaria sp.							1																							
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata							1		1					1	1						1		1		1	1	1	1	1	1
Leptocylindrus danicus																									1	1		1	1	1
Leptocylindrus minimus																														
Licmophora sp.							1	1					1														1			
Melosira sp.																									1	1	2	1	1	1
Navicula sp.							1							1											1	1	1	1	1	1
Nitzschioid sp.	1	1			2	1	1	1	1	1	2	2		1	1	1							1							
Pleurosigma/ Gyrosigma sp.						1		1						1														1		
Rhizosolenia setigera			1	1	1			1			1														1	1	1	1	1	1
Rhizosolenia sp. (pointy)	1										1	1																		
Rhizosolenia sp. (blunt)				1	1									1	1							1							1	
Rhizosolenia stolterfothii							1															1								
Skeletonema costatum	1	1	1		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.							1																							1
Thalassionema sp.	1	1			1		1	1			1	1	1	1	1	1	1	1		1	1	1		1	1	1	1	1	1	1
Thalassiosira sp.	1	2	2	1	1	1	1	1		1	1	1	1	1	1	1	1	1		1	1	1	2	2	1	2	2	2	3	1

Table 7 cont'd

date	07-Sep			12-Sep			19-Sep			21-Sep			08-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms															
Achnanthes sp.															
Amphiproral Tropidoneis		1													
Asterionella japonica	1	1	1										1		
Bacteriastrum sp.															
Biddulphia sp.														1	
Campylosiral Plagiogramma															
Cerautalina sp.															
Chaetoceros concavicorne															
Chaetoceros convolutus														1	
Chaetoceros sp.	5	5	4	1	1			2				1	2	1	1
Corethron hystrix															
Coscinodiscus sp.									1						
Cylindrotheca closterium								1		1					
Dactylisolen sp.												1			
Detonula pumila															
Ditylum brightwellii	1	1	1			1								1	
Eucampia zoodiacus	1	1				1									
Fragilaria sp.															
Grammatophora sp.									1						
Hemialus sp.															
Lauderia annulata															
Leptocylindrus danicus	1	1	1		1				1	1	1	1	1		
Leptocylindrus minimus	1	1	1				1					1			
Licmophora sp.															
Melosira sp.															
Navicula sp.	1														
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1	1	1		1	
Pleurosigmal Gyrosigma sp.															
Rhizosolenia setigera	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rhizosolenia sp. (pointy)															
Rhizosolenia sp. (blunt)															
Rhizosolenia stolterfothii															
Skeletonema costatum	1	1	1	1	1		1	1	1	1	1	1	1	1	1
Stephanopyxis sp.									1						
Thalassionema sp.	1	1	1			1	1				1	1			
Thalassiosira sp.	1	2	1		1		1	1	1	1		2	1		1

Table 8 : Dinoflagellates in Greenway Sound samples.

date	19-May			31-May			07-Jun			20-Jun			29-Jun			05-Jul			12-Jul			19-Jul			23-Aug			29-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																												1		
Amphidinium sp.																	1									1			1	
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus								1			1						1			1	1		1	1				1	1	
Ceratium lineatum																														
Ceratium sp.							1							1			1	1		1			1	1						
Cochlodinium polykrikoides																	1			1	1	1	1	1	1	1	1	1	1	1
Cochlodinium sp.																													1	
Dinophysioid sp.					2					1	1			1						2	1	1								2
Diplopsalis sp.																														
Gonyaulacoid sp.																	2													
Gymnodinioid sp.	2	3	3	3	5	2	5	2	2	4	6	4	2	2	1	3	4	1	3	7	3	3	5	4	9	3	4	2	2	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1		2	1	3	1		1	1			1						1		1			1			2	2	1	1	
Heterocapsa triquetra		1	1					1		1	1		1	1		1	1		1	1	1	1	1	1					1	
Noctiluca scintillans				1	1	1		1	1		1						1													
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																				1										
Prorocentrum gracile			1																1		1	1	1	1	1	1	1	1	1	
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	3	1			3		3	3	1		1	2	2	3	1		2	2	2	6	3	1	1		3	4	3	5	3	2
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 8 cont'd

date	07-Sep			12-Sep			19-Sep			21-Sep			08-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates															
Alexandrium sp.															
Amphidinium sp.		1					1								
Ceratium divericatum															
Ceratium furca															
Ceratium fusus		1	1								1				
Ceratium lineatum															
Ceratium sp.					1										
Cochlodinium polykrikoides		1	1				1		1	1	1	1	1	1	
Cochlodinium sp.															
Dinophysioid sp.					1	1									
Diplopsalis sp.															
Gonyaulacoid sp.													1		
Gymnodinioid sp.	7	8	3	6	5	3	6		3	2		1	1	3	1
Gymnodinium galatheanum															
Gyrodinium spirale-type	1	2	1	1	1		1					2			1
Heterocapsa triquetra	1			1	1		1			1		1	1	1	
Noctiluca scintillans									1						
Noctilucoid sp.															
Oxyrrhis marina															
Oxyphysis oxytoxoides							1	1							
Polykrikos sp.															
Prorocentrum gracile	1	1	1	1			1	1	1	1	1	1		1	
Prorocentrum micans															
Prorocentrum sp.															
Protoperidinioid sp.	2	7	4	4	3		9	1	2	1	1	4			
Pyrocystis lunula															
Raphidophytes															
Heterosigma akashiwo	1	1		1	1										

Table 9 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Greenway Sound samples.

date	19-May			31-May			07-Jun			20-Jun			29-Jun			05-Jul			12-Jul			19-Jul			23-Aug			29-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum							1	1					1	1	1			1					1	1				1		
Dinobryon balticum																														
Ebria tripartita													1																	
Euglenoid				1	1	1			1		1			1						1										
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	4	4	4	3	3	3	3	4	3	4	4	3	3	4	4	3	3	2	2	3	4	4	3	4	4	4	2	3
Zooplankton																														
Appendicularian																														
Barnacle nauplius			1																											
Ciliate	3	3	1	6	6	2	2	1	1	5	4	1	1	2		1	2	1	2	5	1	2	4	1	6	3	2	3	8	3
Copepod		1							1																					
Nauplius																										1				
Pluteus																														
Rotifer																														
Tintinnid			1	2			1									1										2		1		
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Noctiluca scintillans*	*Gymnodinium spp.*	*Noctiluca scintillans*	*Licmophora sp.*	*Chaetoceros sp.*	*Chaetoceros sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Ceratium tripos*	*Ceratium tripos*	*Heterocapsa triquetra*	*Ceratium fusus*	dinoflagellates	*Skeletonema costatum*	*Skeletonema costatum*	*Ceratium spp*	*Pseudonitzschia sp.*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*
count (cells/mL)	200	1300	600	6	20	2	480	380	240	280	3000	300	500	1200	1300	1600	10	2	25	6	50	2000	1600	11	480	320	50	960	600	190
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	65	62	55	5	15	30	63	64	66	75	57	80	80	70	93	92	30	50	45	10	40	65	50	48	80	51	57	80	79	85
Dinoflagellates	20	24	30	45	75	60	30	30	30	16	35	17	16	24	5	4	65	40	50	80	55	32	45	50	15	45	40	14	12	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	2	20	2	2	5	4	2	1	2	1	2	2	2	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1
Zooplankton	14	13	13	30	8	8	2	2	2	8	6	2	2	4	0	3	4	5	4	9	4	2	4	1	4	3	2	5	8	4
Biomass	3.5	3.0	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.0	4.0	3.0	2.5	3.5	3.0	3.0	3.0	2.0	3.5	3.5	2.5	3.5	4.0	3.5	3.0	3.5	2.5	4.0	4.0	3.5

Table 9 cont'd

date	07-Sep			12-Sep			19-Sep			21-Sep			08-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates															
Cryptomonads															
Dictyocha speculum		1		1							1				
Dinobryon balticum															
Ebria tripartita															
Euglenoid							1	1	1						
Phaeocystis pouchetii															
Radiolarian															
unid. Nanoflagellates	4	4	2	4	2	2	6	2	1	2	1	5	3	4	3
Zooplankton															
Appendicularian															
Barnacle nauplius															
Ciliate	2	6	2	3	2		8	2	3		5	4		1	1
Copepod															
Nauplius											1				
Pluteus															
Rotifer				1			1								
Tintinnid				2			2								
Zoea															
other															
Dominant Species/Group															
name	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*
count (cells/mL)	680	1000	180	350	1100	150	540	240	125	45	400	750	350	140	90
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	73	73	46	67	75	40	75	75	65	64	67	95	80	93
Dinoflagellates	8	20	25	40	30	24	45	18	14	34	30	25	4	18	5
Raphidophytes	<1	1	0	2	<1	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	2	1	1	5	2	1	1	1	3	1	1	1
Zooplankton	1	5	1	10	2	0	10	5	10	0	5	5	0	1	1
Biomass	3.5	3.5	3.0	3.5	3.5	3.0	3.5	3.0	2.0	3.0	3.0	3.5	4.0	3.5	3.0

Table 10 : Diatoms in Simoom Sound samples.

date	16-May			24-May			30-May			13-Jun			19-Jun			29-Jun			03-Jul			11-Jul			17-Jul			25-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.				1									1	1																
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	4	4		5		1	2			1	2	2	7	1								3			1					
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium									1		1	1				1	1			1		1	1							1
Dactylisolen sp.	1																													
Ditylum brightwellii																			1											
Eucampia zoodiacus																					1									
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata		1																				1								
Leptocylindrus danicus	1	1														1														
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.																														
Navicula sp.													1																	
Nitzschioid sp.	2	2		1			1	1	1	1	1	1	1					1							1			1	1	1
Pleurosigma/ Gyrosigma sp.																												1	1	1
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)														1					1						1					
Rhizosolenia sp. (blunt)	1	1																		1	1									
Rhizosolenia stolterfothii																				1					1			1		
Skeletonema costatum	1	1		1	1	1	1			1		1	1																	
Stephanopyxis sp.																														
Thalassionema sp.	1						1				1																			
Thalassiosira sp.	2	4		1	1	1	1	1	1	1	1	1	1		1			1							1			1	1	1

Table 10 cont'd

date	31-Jul			14-Aug			22-Aug			28-Aug			05-Sep			10-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiproral Tropidoneis																					
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.					1																
Campylosira/Plagiogramma																					
Cerautalina sp.																					
Chaetoceros concavicorne																					
Chaetoceros convolutus																					
Chaetoceros sp.							1	1		5	4	2	2	2	2	1		3			
Corethron hystrix																					
Coscinodiscus sp.																					
Cylindrotheca closterium													1	1							
Dactylisolen sp.																					
Ditylum brightwellii																					
Eucampia zoodiacus							1	1				1								1	
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata														1							
Leptocylindrus danicus	1	1			1		1			1	1		1					1			
Leptocylindrus minimus	1									1	1		1	1	1						
Licmophora sp.																					
Melosira sp.																					
Navicula sp.																					
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Rhizosolenia sp. (pointy)	1	1																			
Rhizosolenia sp. (blunt)	1																				
Rhizosolenia stolterfothii																					
Skeletonema costatum				1								1				1		1			
Stephanopyxis sp.																					
Thalassionema sp.	1								1	1	1		1	1	1			1			
Thalassiosira sp.	1	1	1		1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	

Table 11 : Dinoflagellates in Simoom Sound samples.

date	16-May			24-May			30-May			13-Jun			19-Jun			29-Jun			03-Jul			11-Jul			17-Jul			25-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																				1										
Amphidinium sp.																1	1	1	1			1					1			
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus											1			1		1	1			1	1		1						1	1
Ceratium lineatum																														
Ceratium sp.											1													1						
Cochlodinium polykrikoides																1	1		1	1	1	1	1	1						
Cochlodinium sp.														1									1							
Dinophysioid sp.		2		1			1	1	1	1	1		1			1	1	1	1	2			1							
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	3		5	3	2	2	4	3	4	5	4	7	7	5	6	4	4	8	6	5	7	12	8	7	6	5	2	4	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type		2		1	2	3				2	3	1	2	2	2	2	2	2	1	2	2	1	2	1		2	2		1	1
Heterocapsa triquetra				1		1													1				1							
Noctiluca scintillans		1		1	1	1	1	1	1	1	1		1	1			1	1	1				1						1	1
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.										1	1					1	1			1			1							
Prorocentrum gracile													1						1			1	1		1				1	
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	4	5		6	4	2	2	3	2	2	6	2	5	5	1	4	2	2	3	2	3	9	11	2	4		2	1	2	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 11 cont'd

date	31-Jul			14-Aug			22-Aug			28-Aug			05-Sep			10-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.													1	1	1						
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus														1							
Ceratium lineatum																					
Ceratium sp.		1																			
Cochlodinium polykrikoides											1	1	1				1		1		
Cochlodinium sp.																					
Dinophysioid sp.							1						1	1							
Gonyaulacoid sp.																					
Gymnodinioid sp.	4	4	3	1	2	1	2	2	1	1	3		9	5	3	1	2	1	6	2	2
Gymnodinium galatheanum																					
Gyrodinium spirale-type			1		1	1			1				1	2	2						
Heterocapsa triquetra				1	1																
Noctiluca scintillans		1			1								1	1	1						1
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxyphysis oxytoxoides															1		1		1		
Polykrikos sp.																					
Prorocentrum gracile	1			1			1			1			1				1		1		
Prorocentrum micans																					
Prorocentrum sp.										1											
Protoperidinioid sp.					2	1	1		2	3	2		6	3	2	1	1	1	1	1	
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo																			1		

Table 12 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Simoom Sound samples.

date	16-May			24-May			30-May			13-Jun			19-Jun			29-Jun			03-Jul			11-Jul			17-Jul			25-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum						1					1			1			1	1	1	1	1	1	1							
Dinobryon balticum																							1							
Ebria tripartita																						1								
Euglenoid										1			1	1			1			1										
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	2		4	4	3	3	3	3	4	3	3	6	5	2	3	4	4	5	4	2	5	4	2	3	3	2	3	3	3
Zooplankton																														
Appendicularian				1																										
Barnacle nauplius																														
Ciliate	1	2		6	4	3	4	3	5	8	10	6	1	5	4	5	5	6	7	7	8	8	13	9	4	1	3	2	2	1
Copepod																														
Nauplius				1						1												1								
Pluteus																														
Rotifer																														
Tintinnid							1				2			1		1	1		2	1		1			1					
Zoea																														
other																											1			
Dominant Species/Group																														
name	*Thalassiosira spp*	*Thalassiosira spp*	no sample	*Skeletonema costatum*	ciliates	*Gymnodinium spp.*	*Noctiluca scintillans*	*Noctiluca scintillans*	*Noctiluca scintillans*	*Noctiluca scintillans*	*Noctiluca scintillans*	ciliates	*Skeletonema costatum*	dinoflagellates	dinoflagellates	Gymnodinioid spp.	ciliates	*Dictyocha speculum*	Gymnodinioid spp.	*Cochlodinium polykrikoides*	*Ceratium fusus*	*Gyrodinium glaucum*	*Ceratium fusus*	dinoflagellates	*Gymnodinium spp*	dinoflagellates	dinoflagellates	*Pseudonitzschia sp.*	*Gymnodinium sp.*	*Gymnodinium sp.*
count (cells/mL)	100	250		750	60	40	2	1	2	3	4	60	1000	100	30	120	40	30	160	25	4	120	40	50	140	30	30	60	220	30
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	80	15	70	18	15	29	25	20	6	4	29	60	15	15	10	2	5	6	8	10	10	1	0	30	0	0	70	25	40
Dinoflagellates	10	15	43	15	40	43	40	50	45	60	75	30	28	60	55	49	46	25	64	65	55	50	63	55	40	90	60	25	70	57
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	2	2	2	2	1	1	1	1	1	1	10	10	5	1	2	30	4	2	2	3	1	1	1	5	20	1	1	1
Zooplankton	4	4	40	13	40	40	30	24	34	33	20	40	2	15	25	40	50	40	26	25	33	37	35	44	29	5	20	4	4	2
Biomass	3.0	3.5	1.5	3.0	2.0	1.5	2.5	2.5	2.5	3.5	4.0	3.0	3.0	2.0	1.5	2.5	2.0	2.0	3.0	3.5	3.0	4.0	4.0	2.5	1.5	1.5	1.5	2.5	3.0	2.5

Table 12 cont'd

date	31-Jul			14-Aug			22-Aug			28-Aug			05-Sep			10-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum					1								1	1							
Dinobryon balticum																	1		1	1	
Ebria tripartita																					
Euglenoid																					
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	4	2	3	4	3	4	3	3	3	1	3	4	4	3	2	3	3	2	6	3	3
Zooplankton																					
Appendicularian	1																				
Barnacle nauplius																					
Ciliate	2	2	4	1	2	1	2		1	1	2	1	6	9	5	3	3	1	4	2	1
Copepod																					
Nauplius								1													
Pluteus																					
Rotifer																					
Tintinnid				1					1							1		1	1		
Zoea																					
other																					
Dominant Species/Group																					
name	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Prorocentrum gracile*	*Eucampia zoodiacus*	*Gymnodinium spp.*
count (cells/mL)	80	40	20	250	2000	420	1400	2000	270	1100	1760	660	600	2600	4300	30	110	500	30	10	5
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	76	75	50	75	88	85	89	97	87	95	95	97	60	80	90	65	60	90	3	72	0
Dinoflagellates	20	22	24	22	10	13	8	1	10	3	3	1	30	14	5	4	24	7	85	15	60
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<1	0	0
Other Flagellates	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	2	3	1
Zooplankton	3	2	25	2	1	1	2	1	2	1	1	1	8	5	4	30	15	2	10	10	39
Biomass	3.0	3.0	2.5	3.0	4.0	3.5	3.5	3.5	3.0	4.0	4.0	3.5	3.5	4.5	4.5	1.5	2.5	3.5	3.0	1.5	1.0

Table 13 : Diatoms in Viner Sound samples.

date	23-May			30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul			18-Jul			25-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne														1																
Chaetoceros convolutus								1	1																					
Chaetoceros sp.	4	4	3	3	5	3	5	4	4	4	6	4	5	8	5	1	8	2	1	1		1	2		3	2	2			1
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium											1		1	1	1															
Dactylisolen sp.																	1													
Detonula pumila																														
Ditylum brightwellii				1									1		1		1	1	1		1									
Eucampia zoodiacus																			1			1								
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1			1	1							1	1	1		1	1							1			1		1
Leptocylindrus minimus																														
Licmophora sp.				1																										
Melosira sp.																														
Navicula sp.																														
Nitzschioid sp.				1	1	1	1	1	1	1	1		1	2	1	1	1	1							1			1		1
Pleurosigma/ Gyrosigma sp.									1	1																				
Rhizosolenia setigera							1																			1				
Rhizosolenia sp. (pointy)																									1			1		
Rhizosolenia sp. (blunt)					1		1	1	1	1	1	1		1	1		1	1							1	1		1		
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1	1	1		1		1	1		1	1	1		1	1										1		1
Stephanopyxis sp.																														
Thalassionema sp.	1					1				1			1	1	1		1	1										1		
Thalassiosira sp.	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1		1

Table 13 cont'd

date	01-Aug			08-Aug			15-Aug			21-Aug			29-Aug			05-Sep			12-Sep			19-Sep			26-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																				1										
Chaetoceros concavicorne																														
Chaetoceros convolutus																													1	
Chaetoceros sp.	1	2			1	3	1		1	2	3		5		1	2	4	4	3	5	2				1	1	3	7	6	5
Corethron hystrix																										1				
Coscinodiscus sp.								1											1			1								
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila					1														1	1	1									
Ditylum brightwellii														1		1		1	1	1	1								1	
Eucampia zoodiacus																						1								
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata													1	1																
Leptocylindrus danicus	1	1	1	1	1	1	1	1				1							1			1	1			1		1		
Leptocylindrus minimus													1	1																
Licmophora sp.																														
Melosira sp.														1																
Navicula sp.													1															1		
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera	1				1	1						1	1	1		1	1	1		1	1	1	1							
Rhizosolenia sp. (pointy)	1																													
Rhizosolenia sp. (blunt)	1	1	1										1		1	1	1		1									1		
Rhizosolenia stolterfothii																														
Skeletonema costatum									1				1	1						1		1	1				1	1	1	
Stephanopyxis sp.																														
Thalassionema sp.	1												1	1	1						1			1	1			1	1	1
Thalassiosira sp.	1	1	1			1	1	2	1	1	1		1		1	1	1	1	1	2	2	1	2	1	2	1	1	3	2	2

Table 13 cont'd

date	11-Oct			18-Oct			25-Oct			01-Nov			08-Nov			15-Nov			22-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiproral Tropidoneis																					
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Campylosira/Plagiogramma																					
Cerautalina sp.																					
Chaetoceros concavicorne																					
Chaetoceros convolutus	1																				
Chaetoceros sp.	3	2	2		1	1															
Corethron hystrix																					
Coscinodiscus sp.																					
Cylindrotheca closterium																					
Dactylisolen sp.																					
Detonula pumila																					
Ditylum brightwellii																					
Eucampia zoodiacus	1																				
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus																					
Leptocylindrus minimus																					
Licmophora sp.																					
Melosira sp.																					
Navicula sp.																					
Nitzschioid sp.		1			1																
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera																					
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)																					
Rhizosolenia stolterfothii																					
Skeletonema costatum	1	1	1																		
Stephanopyxis sp.																					
Thalassionema sp.	1		1																		
Thalassiosira sp.	2	2	1	2	1	1		1					1								1

Table 14 : Dinoflagellates in Viner Sound samples.

date	23-May			30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul			18-Jul			25-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																			1											
Amphidinium sp.																														1
Ceratium divericatum																					1									
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides													1	1			1	1	2	2		2	2			1				
Dinophysioid sp.		1	1																											
Diplopsalis sp.																									1			1		
Gonyaulacoid sp.																														
Gymnodinioid sp.			1	4	2	1	2	1	1	3	2	1	2	1	1	2	1	1	3	1	1	5	2	1	3	2	1	3		4
Gymnodinium galatheanum																									1					
Gyrodinium spirale-type	1		1	1	2									1	1		1													
Heterocapsa triquetra	1																			1		1			1	1		1		1
Noctiluca scintillans																1	1		1			1								
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																									1	1		1		1
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	3	2		3	2				2	2	2	1	2		1	3	1	1	1	1		1		3	2		2		2
Pyrocystis lunula																											1			
Raphidophytes																														
Heterosigma akashiwo																														

Table 14 cont'd

date	01-Aug			08-Aug			15-Aug			21-Aug			29-Aug			05-Sep			12-Sep			19-Sep			26-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																						1								
Amphidinium sp.		1								1																				
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.						1																								
Cochlodinium sp.																														
Cochlodinium polykrikoides																									1	1		1	1	
Dinophysioid sp.	1	1		1	1			1							1				2			1	1		1	1		1	1	
Diplopsalis sp.										1									1	1										
Gonyaulacoid sp.													1		1					1										
Gymnodinioid sp.	3	1	2	2	1		1		1	1	2	2				1			1	2	2	1			3	3		2		
Gymnodinium galatheanum																														
Gyrodinium spirale-type											1	1					1			1			1							
Heterocapsa triquetra	1	1																												
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile	1	1	1	1	1	1	1			1			1		1	1									1			1		
Prorocentrum micans				1																										
Prorocentrum minimum																														
Prorocentrum sp.																												1		
Protoperidinioid sp.	5	4	1	3	1	1	3	2		1				1	1	3			4	3	2	3			3	1				
Pyrocystis lunula																												1		
Raphidophytes																														
Heterosigma akashiwo																														

Table 14 cont'd

date	11-Oct			18-Oct			25-Oct			01-Nov			08-Nov			15-Nov			22-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus																					
Ceratium lineatum																					
Ceratium sp.																					
Cochlodinium sp.																					
Cochlodinium polykrikoides	1			1																	
Dinophysioid sp.	1																				
Diplopsalis sp.													1								
Gonyaulacoid sp.																					
Gymnodinioid sp.	2	1	1	1										1					1	1	1
Gymnodinium galatheanum																					
Gyrodinium spirale-type	1																				
Heterocapsa triquetra																					
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxytoxum sp.																					
Polykrikos sp.																					
Prorocentrum gracile																					
Prorocentrum micans																					
Prorocentrum minimum																					
Prorocentrum sp.																					
Protoperidinioid sp.	1	1				1							2								
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo																					

Table 15 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Viner Sound samples.

date	23-May			30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul			18-Jul			25-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum										1				1		1	1	1	1	1	1	1				1				1
Dinobryon balticum																									1					1
Ebria tripartita							1																							
Euglenoid											1								1				1							
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	3	4	4	4	3	3	3	4	3	3	3	2	3	3	2	4	3	5	4	3	3	3	3	3	4	3	3		3
Zooplankton																														
Appendicularian																												1		
Ciliate	1	2	1	2	2	1	1	1		3	3	2	4	2	1	1	3	1	4	1	1	1			2	4	1	2		1
Copepod	1	1	1																											
Nauplius					1					1																				
Pluteus																														
Rotifer																														
Tintinnid		1		1						1	1	1			1		2		1		1	1						1		
Zoea																														
other																														
Dominant Species/Group																														
name	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira aestivalis*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Noctiluca scintillans*	*Skeletonema costatum*	*Skeletonema costatum*	*Noctiluca scintillans*	*Dinophysis spp.*	*Thalassiosira aestivalis*	dinoflagellates	*Chaetoceros socialis*	no dominant	*Thalassiosira sp*	*Thalassiosira sp*	*Thalassiosira sp*	*Rhizosolenia delicatula*	no sample	*Thalassiosira aestivalis*
count (cells/mL)	500	800	300	400	1200	400	2100	740	860	560	260	48	400	420	480	2	2200	960	2	4	8	140	1100		260	100	40	120		320
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	95	100	100	100	100	100	100	95	100	100	100
Diatoms	80	65	70	70	80	85	94	95	95	86	85	87	82	86	87	5	55	90	10	5	48	37	55	50	40	40	45	60	48	55
Dinoflagellates	8	25	20	19	10	10	3	2	2	8	10	8	7	10	8	80	35	8	65	82	40	60	44	49	45	30	45	35	35	40
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	1	1	1	2	1	1	1	2	1	10	5	1	5	4	7	1	1	1	2	1	1	1	1	4
Zooplankton	11	9	9	10	9	4	2	2	2	4	4	4	10	2	4	5	5	1	20	4	5	2	0	0	13	29	4	4	16	1
Biomass	4.0	4.0	3.5	2.5	3.5	2.5	3.0	2.5	2.5	4.0	3.5	3.0	3.0	3.0	3.0	1.5	3.5	2.5	1.5	1.0	1.0	2.0	2.0	1.0	2.5	2.0	1.0	3.0	2.8	3.0

Table 15 cont'd

date	01-Aug			08-Aug			15-Aug			21-Aug			29-Aug			05-Sep			12-Sep			19-Sep			26-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1			1	1			1			1							1	1	1					1	1				1
Dinobryon balticum																														
Ebria tripartita																			1	1										
Euglenoid	1	1		1	1				1					1	1	1			1						1					
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	3	3	3	3	3	2	3	4	3	3	2	4	2	1	3	2	4	4	2	4	2	2	3	3	2	5	3	1
Zooplankton																														
Appendicularian																														
Ciliate	1	1	1	1	1			1			1	1	1	1	1	3	1	1	5	5	2	4	1		3	2	1	3	2	1
Copepod																1			1	1										
Nauplius										1									1		2	1								
Pluteus																														
Rotifer	1																		1											
Tintinnid	1	1		1																2	2				3				1	
Zoea																														
other																														
Dominant Species/Group																														
name	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Prorocentrum gracile*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Cochlodinium polykrikoides*	*Thalassiosira sp.*	*Pseudonitzschia sp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Thalassiosira spp.*
count (cells/mL)	520	660	60	290	620	330	410	760	60	1300	670	80	4000	3000	2000	1300	3900	1400	3600	11000	12000	260	550	100	22	~50	~30	510	160	40
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	55	57	68	40	65	85	84	87	97	90	91	90	97	97	96	89	97	98	70	90	92	57	77	99	30	50	96	75	91	92
Dinoflagellates	40	40	30	45	30	14	15	10	2	8	6	8	1	1	2	5	1	0	15	5	3	35	20	0	50	40	0	20	5	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	1	1	8	4	1	1	2	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	1	5	5	1	1	1	5
Zooplankton	3	2	1	7	1	0	0	1	0	1	1	1	1	1	1	5	1	1	13	4	4	7	2	0	15	5	3	4	3	3
Biomass	3.5	3.5	2.5	3.0	3.5	3.0	3.0	3.0	2.0	4.0	3.5	2.0	4.0	4.0	3.5	4.0	4.0	4.0	4.0	4.5	4.5	3.0	3.0	2.5	3.0	2.0	2.0	4.0	4.0	2.5

Table 15 cont'd

date	11-Oct			18-Oct			25-Oct			01-Nov			08-Nov			15-Nov			22-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum												1								1	
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid																					
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	3	4	4	4	5	3	3	2	2	4	3	4	5	4	3	5	4	5	3	5	4
Zooplankton																					
Appendicularian																					
Ciliate	1	1		2	1	1	2		1	2	1	1	3	1	1	1	1	1	1	1	
Copepod																					
Nauplius																					
Pluteus																					
Rotifer																					
Tintinnid																					
Zoea																					
other																					
Dominant Species/Group																					
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Cochlodinium polykrikoides*	*Chaetoceros sp.*	*Chaetoceros sp.*	ciliates	*Thalassiosira sp.*	ciliates	ciliates	ciliates	*Dictyocha speculum*	ciliates	*Gymnodinium sp.*	ciliates	ciliates	ciliates	ciliates	*Gymnodinium sp.*	*Dictyocha speculum*	*Gymnodinium sp.*
count (cells/mL)	1100	200	160	2	30	10	5	2	~2	4	1	1	20	1	1	2	1	1	1	2	2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	95	96	30	75	70	0	55	0	15	0	0	10	0	0	0	0	0	0	0	20
Dinoflagellates	12	3	3	30	0	10	0	0	0	15	0	0	30	15	0	0	0	0	20	15	25
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	10	5	10	30	45	40	15	85	90	10	70	80	60	80	80	60	65	55
Zooplankton	2	1	0	30	20	10	70	0	60	55	15	10	50	15	20	40	20	20	20	20	0
Biomass	4.0	3.0	2.5	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Table 16 : Diatoms in Brown Point samples.

date	29-May			5-Jun			12-Jun			19-Jun			26-Jun			10-Jul			16-Jul			24-Jul			30-Jul			7-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus							1								1															
Chaetoceros sp.	3	2	2	6	4	3	7	8	4	8	8	10	3	7	10		1			1		1	1					1	1	
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium				1	1	1		1		1		1		1	1								1							
Dactyliosolen sp.																														
Detonula pumila																									1					
Ditylum brightwellii																1			1	1	1				1					
Eucampia zoodiacus																1														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1														1			1	1			1		1	1			1	
Leptocylindrus minimus																									1					
Licmophora sp.																														
Melosira sp.																														
Navicula sp.					1					1				1																
Nitzschioid sp.		1		1	1	2	1	1		1	2	2		2	2				1	1	1	1	2		1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.	1	1	1	1			1	1	1		1	1																		
Rhizosolenia setigera																												1	1	
Rhizosolenia sp. (pointy)																1						1	1							
Rhizosolenia sp. (blunt)		1	1		1		1	1		1		1		1	1					1			1	1	1	1		1		
Rhizosolenia stolterfothii																			1											
Skeletonema costatum	1	1			1		1		1	1	1	1	1	1	1	1	1	1							1					
Stephanopyxis sp.																														
Thalassioneme sp.									1	1	1	1	1	1	1		1													
Thalassiosira sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1

Table 16 cont'd

date	21-Aug			10-Sep			17-Sep			24-Sep			3-Oct			8-Oct			16-Oct			24-Oct			29-Oct			7-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	1	2		2	1		2				1								1											
Corethron hystrix																														
Coscinodiscus sp.	1									1																				
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1						1								1												
Leptocylindrus minimus								1																						
Licmophora sp.								1							1															
Melosira sp.								1		1		1	1			1														
Navicula sp.								1																						
Nitzschioid sp.	1	1	1	1	1			1																						
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera	1	1																												
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1				1	1	1						
Stephanopyxis sp.																														
Thalassioneme sp.																														
Thalassiosira sp.				1	1			1			3	2		1	1	1			1	1	1						1			

Table 17 : Dinoflagellates in Brown Point samples.

date	29-May			5-Jun			12-Jun			19-Jun			26-Jun			10-Jul			16-Jul			24-Jul			30-Jul			7-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.														1		1														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus												1																		
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Dinophysioid sp.	1												1	1	2	1				1	1		1			1	1	1	1	
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	2	2	2	3	2	2	3	4	1	1	1	5	4	4	2	4	1	5	3	2	5	5	2	2	1		1		1
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1				2		1	1						1	2		1			1	1	1	2							
Heterocapsa triquetra		1								1						1			1	1	1		1	1		1				
Noctiluca scintillans													1	1																
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																			1									1		
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	5	2	2	2	1	2	3	2		1	2	3	3	3	2	2			3		2	4	1	2	2	2	2	2	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 17 cont'd

date	21-Aug			10-Sep			17-Sep			24-Sep			3-Oct			8-Oct			16-Oct			24-Oct			29-Oct			7-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.				1																										
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	3		2	3	1	1		1							5	1			1		1					1	1	1	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1																												
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	1	1	3	1	1	1	1	1		3					2														
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 18 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Brown Point samples.

date	29-May			5-Jun			12-Jun			19-Jun			26-Jun			10-Jul			16-Jul			24-Jul			30-Jul			7-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum							1	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1	1	1	1	1	
Dinobryon balticum								1		1	1	1													1		1			
Ebria tripartita																			1											
Euglenoid						1	1																							
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	4	3	3	3	3	3	3	5	3	2	3	3	4	4	4	3	2	3	4	3	4	4	3	4	3	4	3	3	4
Zooplankton																														
Appendicularian								1	1					1			1													
Ciliate		2	1	2	1		1	1	3	2	4	2	5	5	5	2	2	1	2	3	1	2	2		2	1	1	1	3	1
Copepod		1																									1			
Nauplius	1	1	1								1										1									
Pluteus																														
Rotifer																														
Tintinnid		2	1	1	1	1		1	1	1	2				1					1		1	1		1		1	1	1	1
Zoea																						1								
other																														
Dominant Species/Group																														
name	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira nordenskioeldi*	*Thalassiosira nordenskioeldi*	*Thalassiosira nordenskioeldi*	*Thalassiosira nordenskioeldi*	*Thalassiosira nordenskioeldi*	*Thalassiosira nordenskioeldi*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Gymnodinium spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Pseudonitzschia sp.*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*
count (cells/mL)	420	2600	40	260	160	200	220	60	120	1300	1400	2040	150	1100	3000	6400	16000	8000	180	100	40	500	900	40	200	150	90	560	410	40
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	69	54	93	90	93	85	80	80	72	76	88	40	70	57	77	70	94	49	50	50	75	70	65	75	70	80	80	80	88
Dinoflagellates	14	20	30	3	6	3	12	16	15	6	4	4	40	12	20	20	24	4	45	41	45	20	22	30	20	26	15	16	10	9
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	2	2	2	13	7	3	5	8	15	1	2	1	2	4	2	2	6	5	2	2	2	1	2	1
Zooplankton	5	10	15	3	3	3	1	2	3	9	13	5	15	10	8	2	4	1	4	5	3	3	2	0	3	2	3	3	8	2
Biomass	3.0	4.0	2.5	3.5	3.5	3.0	3.5	3.5	3.5	3.0	3.0	3.5	2.5	3.5	4.0	3.0	3.5	3.0	2.0	2.0	1.0	3.0	3.5	1.5	3.0	2.5	2.0	3.5	3.5	2.5

Table 18 cont'd

date	21-Aug			10-Sep			17-Sep			24-Sep			3-Oct			8-Oct			16-Oct			24-Oct			29-Oct			7-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum		1		1	1		1	1						1								1	1	1						
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid						1																								
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	3	3	3	3	2	3	3	2	2	2	2	2	3	5	3	1	2	4	4	3	5	2	2	3	3	4	3	4	5
Zooplankton																														
Appendicularian																														
Ciliate	2	2		2	2		1			1	3		2			3	1	1					1	1	2	1	1	2	2	
Copepod																														
Nauplius				1						1																				
Pluteus																														
Rotifer																														
Tintinnid	1	2	1	1	1	1				1	1	1				1														
Zoea							1																							
other						1																								
Dominant Species/Group																														
name	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	ciliates	*Thalassiosira sp.*	*Thalassiosira sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Dictyocha speculum*	ciliates	ciliates	ciliates	ciliates	ciliates	*Gymnodinium sp.*
count (cells/mL)	1200	1200	120	1650	1200	760	5000	1500	150	210	4500	130	~3	~6	~4	5800	4000	2000	5	3	2	40	30	3	4	2	1	10	2	1
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	83	96	80	85	90	80	95	60	94	85	95	20	80	90	78	95	97	85	70	60	80	45	20	0	0	0	0	0	0
Dinoflagellates	5	10	2	8	5	7	15	4	39	0	10	0	0	0	0	15	2	0	0	15	0	5	0	0	0	0	0	10	0	15
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	2	2	1	2	1	1	1	1	1	20	20	10	2	1	1	15	15	40	15	45	50	50	65	85	10	70	85
Zooplankton	4	6	1	10	8	2	3	0	0	5	4	4	60	0	0	5	2	2	0	0	0	0	10	30	50	35	15	80	30	0
Biomass	4.0	4.0	2.5	3.0	3.0	2.5	3.0	2.5	1.5	2.0	3.5	2.0	1.0	1.0	1.0	3.5	2.5	2.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.5	1.0	1.0

Table 19 : Diatoms in Larsen Island samples.

date	17-May			31-May			08-Jun			14-Jun			22-Jun			28-Jun			06-Jul			12-Jul			20-Jul			26-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																1	1													
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus			1		1			1			1																			
Chaetoceros sp.	10	9	9	6	6	6	7	6	5	5	6	6	7	6	5	7	7	5				1	2	1	4	2	1	2	3	2
Corethron hystrix										1			1					1												
Coscinodiscus sp.			1																											
Cylindrotheca closterium							1	1				1	1	1																
Dactylisolen sp.																1	1												1	
Detonula pumila																	1													
Ditylum brightwellii																														
Eucampia zoodiacus	1		1					1																						
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1		1	1	1	1	1		1					1				1							1			1	1	1
Leptocylindrus minimus																														
Licmophora sp.																					1									
Melosira sp.							1	1					1	1	1											1				
Navicula sp.			1	2	1	1				1			1	1	1	1	1			1								1	2	
Nitzschioid sp.	2	2	2							1	1	1	1	1		1	2	1												
Pleurosigma/ Gyrosigma sp.			1		1	1	1	1		1	1	1																		
Rhizosolenia setigera															1															
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)	1			1			1			1	1	1	1	1	1			1				1						1	1	1
Rhizosolenia stolterfothii																														
Skeletonema costatum	1								1	1	1	1	1	1		1	1	1	1			1	1	1	1	1	1	1	1	1
Stephanopyxis sp.		1																												
Thalassionema sp.	1	1	1						1	1		1	1	1		1	1	1	1	1	1	1	1	1						
Thalassiosira sp.	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1	2	2	2	2	2	2	1	1	1

Table 19 cont'd

date	02-Aug			09-Aug			16-Aug			23-Aug			31-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.															1															
Chaetoceros concavicorne																				1										
Chaetoceros convolutus																											1			
Chaetoceros sp.	2	1	1	1		1	2	3		4	4		3	2	2	5	3	5	3	4	2				4	2	2	1	3	
Corethron hystrix								1																						
Coscinodiscus sp.																1										1	1			
Cylindrotheca closterium																		1												
Dactylisolen sp.																														
Detonula pumila				1	1	1	1	1	1	1	1			1	1	1	1	1												
Ditylum brightwellii													1				1													
Eucampia zoodiacus									1		1							1												
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1		1	1			1	1	1	1	1	1	1	1	1	1	1	1							1		
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.										1								1			1				1		1			
Navicula sp.																														
Nitzschioid sp.			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		1				
Pleurosigma/ Gyrosigma sp.																										1				
Rhizosolenia setigera							1	1		1	1	1		1	1		1	1	1	1	1									
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)	1	1	1																1	1							1		1	
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1				1	1		1	1	1	1			1	1	1	1	1	1				1		1			
Stephanopyxis sp.																														
Thalassionema sp.		1	1					1							1		1	1	1		1									1
Thalassiosira sp.	1	1	1	1	1	1	2	2	2	2	2	2	1	1		1	1	1	2	2	2	1		1	2	1	1	1	2	2

Table 19 cont'd

date	11-Oct			18-Oct			24-Oct			01-Nov			08-Nov			15-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiprora/ Tropidoneis						1															
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Campylosira/Plagiogramma																					
Cerautalina sp.																					
Chaetoceros concavicorne																					
Chaetoceros convolutus																					
Chaetoceros sp.	7	4	5	1																	
Corethron hystrix	1																				
Coscinodiscus sp.	1																				
Cylindrotheca closterium																					
Dactylisolen sp.																					
Detonula pumila	1			1																	
Ditylum brightwellii																					
Eucampia zoodiacus																					
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus	1																				
Leptocylindrus minimus																					
Licmophora sp.																					
Melosira sp.						1	1					1				1			1		1
Navicula sp.																					
Nitzschioid sp.																					
Pleurosigma/ Gyrosigma sp.				1																	
Rhizosolenia setigera																					
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)		1	1																		
Rhizosolenia stolterfothii																					
Skeletonema costatum															1						
Stephanopyxis sp.																					
Thalassionema sp.		1			1			1									1				
Thalassiosira sp.	2	2	2	2	2	2		1	1	1	1	1		1	1		1		1		1

Table 20 : Dinoflagellates in Larsen Island samples.

date	17-May			31-May			08-Jun			14-Jun			22-Jun			28-Jun			06-Jul			12-Jul			20-Jul			26-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																1														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus								1																					1	
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																													1	
Cochlodinium sp.																														
Dinophysioid sp.												1					1			1		1	1	1			1		1	
Gonyaulacoid sp.														1				1												
Gymnodinioid sp.	3	3		1	1	1	2	1	1	1	1	1	2	1	1		2	2	1	1	3	1	1		2	1		2	2	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1		1				1		1							1	1	1				1	1						1	1
Heterocapsa triquetra																													1	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	5	4	5	2	1		2	2	1		1	1	2	1		2	1	2		1			1	1	1			2	4	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 20 cont'd

date	02-Aug			09-Aug			16-Aug			23-Aug			31-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.													1													1				
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Dinophysioid sp.				1																				1			1			
Gonyaulacoid sp.																														
Gymnodinioid sp.	1		1		1	1	2	2	1		1		1			1	2		1		1	1	1	1	3	1	2	1	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type						1				1								1							1				1	
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile				1			1																							
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	2	2	3	4	3	2	1	2	5	2		1			3	3	2		2		1		2		1	1			
Pyrocystis lunula																												1		
Raphidophytes																														
Heterosigma akashiwo																			1											

Table 20 cont'd

date	11-Oct			18-Oct			24-Oct			01-Nov			08-Nov			15-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus																					
Ceratium lineatum																					
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium sp.																					
Dinophysioid sp.											1										
Gonyaulacoid sp.																					
Gymnodinioid sp.	1		1		1	1	1		2			1				1		1	1		
Gymnodinium galatheanum																					
Gyrodinium spirale-type									1												
Heterocapsa triquetra																					
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxytoxum sp.																					
Polykrikos sp.																					
Prorocentrum gracile																					
Prorocentrum micans																					
Prorocentrum minimum																					
Prorocentrum sp.																					
Protoperidinioid sp.																					
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo																					

Table 21 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Larsen Island samples.

date	17-May			31-May			08-Jun			14-Jun			22-Jun			28-Jun			06-Jul			12-Jul			20-Jul			26-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum			1					1		1	1		1	1		1	1	1	1	1	1		1	1		1	1		1	1
Dinobryon balticum																														
Ebria tripartita																				1	1						1			
Euglenoid	1							1																1						
Phaeocystis pouchetii	1																													
Radiolarian																														
unid. Nanoflagellates				5	4	3	3	3	3	3	3	3	2	2	3	2	2	4	2	5	3	3	4	3	3	4	2	3	4	5
Zooplankton																														
Appendicularian								1																					1	
Barnacle nauplius																														
Ciliate	3	3	3			2	1		1	2	2	1	1	1	2	1	3	4	2	1	1	1	1	1		2	1	2	5	1
Copepod					1					1	1																			
Nauplius		1		1														1												
Pluteus																														
Rotifer																														
Tintinnid	1	1	2			1	1	1			1	1																1		
Zoea																														
other																									1					
Dominant Species/Group																														
name	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	diatoms	*Dictyocha speculum*	*Dictyocha speculum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	700	610	400	540	620	400	400	260	200	660	1120	1060	1700	1700	450	550	500	300	30	12	17	2000	3000	3000	1800	400	40	720	3000	730
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	95	100	100	101	100	100	100
Diatoms	90	90	90	80	85	87	84	83	88	87	86	90	90	90	90	85	80	60	60	30	25	80	80	80	85	90	94	75	65	70
Dinoflagellates	5	5	5	17	13	10	10	10	8	4	5	6	8	8	5	8	10	30	10	30	35	17	18	12	13	7	2	20	23	25
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	1	2	1	6	4	1	1	1	1	5	5	2	20	30	35	1	1	2	1	1	1	1	2	3
Zooplankton	4	4	4	2	1	2	5	5	3	3	5	3	1	1	4	2	5	8	10	10	5	2	1	1	1	2	4	4	10	2
Biomass	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.0	3.0	3.0	3.5	3.0	3.0	3.0	2.0	3.0	2.0	2.5	1.0	1.0	1.0	2.0	2.5	2.5	3.5	2.5	1.5	3.5	4.0	3.5

Table 21 cont'd

date	02-Aug			09-Aug			16-Aug			23-Aug			31-Aug			06-Sep			13-Sep			20-Sep			27-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1		1	1	1	1	1	1				1	1	1	1		1	1	1	1	1	1						1
Dinobryon balticum																														
Ebria tripartita		1																							1					
Euglenoid				1	1																									
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	3	4	3	4	2	3	4	2	3	2	4	3	2	2	2	1	3	2	2	2	3	2	7	3	4	3	4	4
Zooplankton																														
Appendicularian																											1			
Barnacle nauplius																									4	7	2	2	1	
Ciliate			1	3	2	1		1		1	2		2			3	4		4											
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid								1			1					1														
Zoea																														
other																														
Dominant Species/Group																														
name	*Rhizosolenia delicatula*	*Rhizosolenia delicatula*	*Rhizosolenia delicatula*	*Thalassiosira rotula*	*Thalassiosira rotula*	*Thalassiosira rotula*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzchia sp.*	*Pseudonitzchia sp.*	*Pseudonitzchia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Thalassiosira sp.*	*Gymnodinium sp.*	*Pseudonitzschia sp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Chaetoceros spp.*	*Leptocylindrus danicus*	*Thalassiosira spp.*	*Thalassiosira spp.*
count (cells/mL)	200	90	80	25	20	20	420	260	220	2600	1750	2000	930	620	790	1400	3700	3000	5000	1400	250	4	2	5	~20	~15	~35	~8	~30	~8
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	97	100	100	100
Diatoms	84	85	80	40	53	65	87	88	93	92	90	99	97	99	99	83	95	97	85	97	97	45	0	50	50	50	70	50	73	70
Dinoflagellates	15	13	15	35	35	30	12	8	5	5	5	0	1	0	0	2	2	2	1	2	2	35	50	30	5	10	10	35	20	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	2	1	12	2	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	20	50	20	15	5	2	2	2	20
Zooplankton	0	0	4	13	10	3	0	3	0	2	4	0	1	0	0	14	2	0	12	0	0	0	0	0	30	35	15	13	5	0
Biomass	3.0	2.5	2.5	2.5	2.0	2.0	3.0	3.0	2.0	4.0	4.0	4.0	3.5	3.5	3.0	3.5	4.0	4.0	4.0	3.5	3.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.5	1.0

Table 21 cont'd

date	11-Oct			18-Oct			24-Oct			01-Nov			08-Nov			15-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																	1		1	1	
Dictyocha speculum						1															
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid																	1				
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	4	3	3	5	4	3	4	2	2	4	4	5	5	3	5	3	4	3	6	4	3
Zooplankton																					
Appendicularian																					
Barnacle nauplius																1	1	1	1	1	2
Ciliate				2	1	1	3	1	1	1	2	1	1								
Copepod																					
Nauplius																					
Pluteus																					
Rotifer																					
Tintinnid			1																		
Zoea																					
other																					
Dominant Species/Group																					
name	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	ciliates	diatoms	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	ciliates	*Thalassiosira sp.*	*Thalassiosira sp.*	*Melosira sulcata*	*Thalassionema sp.*	*Gymnodinium sp.*	*Dictyocha speculum*	*Dictyocha speculum*	*Melosira sulcata*
count (cells/mL)	300	300	120	~15	~20	~8	5	3	6	6	4	2	~1	~2	~3	5	4	2	5	1	6
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	98	99	96	70	80	70	0	60	50	70	50	60	0	35	80	40	50	0	15	0	50
Dinoflagellates	1	0	2	0	5	5	20	0	30	0	30	20	0	0	0	30	0	40	25	0	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	5	5	15	20	20	10	10	5	10	85	65	20	10	30	35	50	80	20
Zooplankton	0	0	1	25	10	10	60	20	10	20	15	10	15	0	0	20	20	25	10	20	30
Biomass	3.5	3.0	2.5	1.5	1.5	1.5	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0

Table 22 : Diatoms in Warren Islands samples.

date	15-May			22-May			29-May			05-Jun			12-Jun			19-Jun			26-Jun			03-Jul			10-Jul			17-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																													1	1
Biddulphia sp.		1									1																			
Campylosiral Plagiogramma																														
Cerautalina sp.																				1										
Chaetoceros concavicorne				1											1			1				1		1						
Chaetoceros convolutus																														
Chaetoceros sp.	1	1	1	1	5	2	3	4	3	5	9	9	3	5	5	7	6	5	7	5	4	4	5	6	2	1	3	2	1	1
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium					1						1	1					1		1	1				1						
Dactylisolen sp.																1			1											
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.														1																
Lauderia annulata									1				1											1						
Leptocylindrus danicus																														
Leptocylindrus minimus																														
Licmophora sp.												1															1			
Melosira sp.										1	1					1														1
Navicula sp.				1	1					1	1	1	1	1		1	2	1	1	1		1							1	
Nitzschioid sp.					1					1			1	1	1			1					1							
Pleurosigma/ Gyrosigma sp.			1			1	1		1	1			1	1																
Rhizosolenia setigera															1								1							
Rhizosolenia sp. (pointy)											1	1		1	1			1	1	1	1		1	1	1	1				
Rhizosolenia sp. (blunt)								1																						
Rhizosolenia stolterfothii																														
Skeletonema costatum	1		1							1		1	1		1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
Stephanopyxis sp.				1												1														
Thalassionema sp.																1			1	1		1	1	1	1	1	1			
Thalassiosira sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2	2	1			1	2	2	2

Table 22 cont'd

date	24-Jul			31-Jul			07-Aug			14-Aug			21-Aug			30-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica							1				1	1																		
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosiral/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	4	2	2	6	6	6	4	5	4	3	3	4	2	2	1	3	5	1	3	1			2	2		2	1	1	1	1
Corethron hystrix											1							1												
Coscinodiscus sp.								1				1																		
Cylindrotheca closterium				1				1											1											
Dactylisolen sp.																														
Detonula pumila				1		1																								
Ditylum brightwellii						1	1				1																			
Eucampia zoodiacus										1			1																	
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																1	1	1												
Leptocylindrus danicus				1	1		1			1	1	1	1			1	1	1	1	1	1		1					1		
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.						1			1				1					1						1		1				
Navicula sp.								1				1				1	1		1					1						
Nitzschioid sp.				1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1			1	1
Pleurosigma/ Gyrosigma sp.							1								1															
Rhizosolenia setigera										1				1	1	1	1						1							
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)	1	1					1	1				1			1									1						
Rhizosolenia stolterfothii						1										1														
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1
Stephanopyxis sp.	1				1			1																						
Thalassionema sp.						1	1	1	1		1	1	1						1		1		1							
Thalassiosira sp.	1	1	1	1	1	2	2	2	2	2	2	3	1	1	1	2	2	2	1	1	1	1	2	2		2	1	1	1	1

Table 22 cont'd

date	03-Oct			10-Oct			17-Oct			24-Oct			30-Oct			09-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiproral Tropidoneis																					1
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.		1																			
Campylosiral Plagiogramma																					
Cerautalina sp.																					
Chaetoceros concavicorne											1										
Chaetoceros convolutus										1									1	1	1
Chaetoceros sp.					2							1									
Corethron hystrix																				1	
Coscinodiscus sp.																					
Cylindrotheca closterium																					
Dactylisolen sp.																					
Detonula pumila																					
Ditylum brightwellii																					
Eucampia zoodiacus																					
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus																					
Leptocylindrus minimus					1																
Licmophora sp.								1													
Melosira sp.																1					1
Navicula sp.		1																			1
Nitzschioid sp.																					
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera																					
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)			1																		
Rhizosolenia stolterfothii																					
Skeletonema costatum				1	1	1													1		
Stephanopyxis sp.																					
Thalassionema sp.					1																
Thalassiosira sp.			1	1										1	1	1	1			1	1

Table 23 : Dinoflagellates in Warren Islands samples.

date	15-May			22-May			29-May			05-Jun			12-Jun			19-Jun			26-Jun			03-Jul			10-Jul			17-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																1						1								
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																1			1											
Cochlodinium polykrikoides																				1										
Dinophysioid sp.																														
Diplopsalis sp.					1	1																								
Gonyaulacoid sp.							1	2	1	5	6	4	2	2	1	3	1	2	2	4	1	3	2	4	3	3	2	4	5	4
Gymnodinioid sp.	1																								1	1				
Gymnodinium galatheanum								1	1		1				1	3	1	1		1						1		1	1	1
Gyrodinium spirale-type	1	2	1	2	2			1																						
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														1
Oxyrrhis marina																				1						1				
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																										1				
Prorocentrum sp.		1									1	2	1	2		1	1		2		2	1	1	1						
Protoperidinioid sp.					1	3		1	1																					
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 23 cont'd

date	24-Jul			31-Jul			07-Aug			14-Aug			21-Aug			30-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.											1																			
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca			1																											
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides								1				1													1					
Dinophysioid sp.																														
Diplopsalis sp.																						1						1		2
Gonyaulacoid sp.	2	3	2	2	3	2	2	1	1	2	3		1	2	2	2		1	1	2	1									
Gymnodinioid sp.										2																				
Gymnodinium galatheanum		1			1																									
Gyrodinium spirale-type			1																											
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.							1																							
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																			1				3	1		1		1	1	1
Prorocentrum sp.	1			1			1			3	2	3				1														
Protoperidinioid sp.																														
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 23 cont'd

date	03-Oct			10-Oct			17-Oct			24-Oct			30-Oct			09-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus																					
Ceratium lineatum																					
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium sp.																					
Cochlodinium polykrikoides								1													
Dinophysioid sp.																					
Diplopsalis sp.																					
Gonyaulacoid sp.																					
Gymnodinioid sp.	1	1		1	2	1		1	1	1			1							1	
Gymnodinium galatheanum																					
Gyrodinium spirale-type								1													
Heterocapsa triquetra																					
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxytoxum sp.																					
Polykrikos sp.																					
Prorocentrum gracile																					
Prorocentrum micans																					
Prorocentrum minimum																					
Prorocentrum sp.																					
Protoperidinioid sp.					1																
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo																					

Table 24 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Warren Islands samples.

date	15-May			22-May			29-May			05-Jun			12-Jun			19-Jun			26-Jun			03-Jul			10-Jul			17-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dictyocha speculum				1																										
Dinobryon balticum																													1	
Ebria tripartita										1						1						1	1	1						
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	4	4	6	4	3	4	3	6	5	2	4	4	3	3	3	2	3	4	2	4	3	3	4	3	4	3	4	3
Zooplankton																														
Appendicularian																														
Ciliate	2	2	1	6	4	2				2	2	2	2	2	1	5	4	4	4	1	2	5	4	2	3	1	3	1	2	2
Copepod																					1		1							
Nauplius								1							1															
Pluteus																														
Rotifer		1	1											1	1						1							1	1	
Tintinnid	1			3	1	2	1		1	1	2	1																		
Zoea																														
other																														
Dominant Species/Group																														
name	*Thalassiosira nordensk*	*Thalassiosira nordensk*	*Thalassiosira nordensk*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Thalassiosira aestiva*	*Thalassiosira aestiva*	*Thalassiosira aestiva*	*Thalassiosira nordens*	*Thalassiosira nordens*	*Thalassiosira nordens*	*Thalassiosira nordens*	*Thalassiosira nordens*	*Thalassiosira nordens*	ciliates	ciliates	ciliates	*Skeletonema costatu*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatu*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*
count (cells/mL)	180	180	60	60	90	60	860	1000	540	65	400	300	60	180	40	30	20	15	260	940	160	200	480	500	2100	1000	2000	80	310	40
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	88	91	84	45	60	80	75	65	80	90	90	91	86	84	87	4	3	6	75	79	86	77	79	72	74	80	80	87	80	85
Dinoflagellates	9	6	10	10	10	5	22	32	17	3	5	4	8	10	8	4	5	2	10	15	5	7	5	10	20	16	14	10	14	12
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	5	5	3	1	1	1	2	1	1	1	1	1	1	1	1	10	5	5	12	12	15	1	2	3	1	3	1
Zooplankton	2	2	5	40	25	12	2	2	2	5	4	4	5	5	4	91	91	91	5	1	4	4	4	3	5	2	3	2	3	2
Biomass	2.0	2.5	1.5	2.0	2.0	1.5	3.5	3.5	3.0	3.5	3.5	3.5	3.5	3.5	3.0	1.0	1.0	1.0	3.0	3.0	2.5	3.0	3.5	3.5	3.0	2.5	3.0	2.0	2.5	1.0

Table 24 cont'd

date	24-Jul			31-Jul			07-Aug			14-Aug			21-Aug			30-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1			1			1	1		1		1			1	1		1		1	1		1	1	1	1	1	1
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid	1																													
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	5	5	3	4	3	3	3	3	2	4	2	3	3	3	2	2	3	2	1	4	3	2	2	3	3	3	4	2	2
Zooplankton																														
Appendicularian																														
Ciliate	2	3	2	1	1		1	2	1	1	2	1		1	1	3	3	1	3	1	1		1	1	2	1		1	1	
Copepod														1																
Nauplius																														1
Pluteus																							1							
Rotifer																														
Tintinnid										1	2								1									2		1
Zoea																														
other														1																
Dominant Species/Group																														
name	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatu*	*Pseudonitzschia sp.*	*Skeletonema costatu*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatu*	ciliates	*Pseudonitzschia sp.*	*Dictyocha speculum*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*
count (cells/mL)	350	110	130	1100	2400	280	6000	6600	740	6000	9800	6400	80	240	100	100	150	60	1200	100	100	50	170	900	3	8	4	1800	490	1200
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	70	70	94	90	90	90	96	95	82	89	88	97	92	91	97	98	97	92	96	91	95	85	90	0	85	45	83	87	92
Dinoflagellates	5	22	23	4	8	9	8	2	3	14	8	10	2	5	7	1	0	1	2	2	2	0	8	5	15	5	5	2	5	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	3	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	5	2	1	35	7	50	5	3	3
Zooplankton	2	4	3	1	1	0	1	1	1	3	2	1	0	2	1	1	1	1	5	1	5	0	5	4	50	3	0	10	5	5
Biomass	3.0	2.0	2.0	3.5	4.0	3.0	4.0	4.0	3.0	3.5	4.0	4.0	2.0	3.5	2.5	3.0	3.0	2.5	3.0	2.5	2.0	2.0	2.0	2.0	1.0	1.0	1.0	3.0	2.5	2.5

Table 24 cont'd

date	03-Oct			10-Oct			17-Oct			24-Oct			30-Oct			09-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum		1														1					
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid																					
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	4	3	5	2	3	4	3	5	2	5	4	3	3	4	5	4	5	4	4	5	3
Zooplankton																					
Appendicularian			1																		
Ciliate	2	5	2	1	2	1	4	4	4	3	2	2		1		1		2			1
Copepod																					1
Nauplius																					
Pluteus																					
Rotifer																					
Tintinnid	1					1		1													
Zoea																					
other																					
Dominant Species/Group																					
name	ciliates	ciliates	*Thalassiosira sp.*	*Skeletonema costatu*	*Skeletonema costatu*	*Skeletonema costatu*	ciliates	ciliates	ciliates	ciliates	*Chaetoceros concav*	*Chaetoceros debilis*	*Gymnodinium sp.*	ciliates	*Thalassiosira sp.*	*Melosira sulcata*	*Thalassiosira sp.*	ciliates	*Chaetoceros convolu*	*Chaetoceros convolu*	*Chaetoceros convolu*
count (cells/mL)	~6	~20	~5	~100	~200	~50	~30	~20	~10	20	3	15	1	2	1	~6	~2	~3	58	97	85
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	35	55	90	83	75	0	5	0	20	40	45	0	25	25	45	35	0	95	85	90
Dinoflagellates	15	5	0	5	10	5	0	15	10	5	0	0	25	0	0	0	0	0	0	10	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	5	1	2	5	10	5	10	5	10	5	75	25	75	35	65	70	5	5	2
Zooplankton	80	55	40	4	5	15	90	75	80	70	50	50	0	50	0	20	0	30	0	0	8
Biomass	1.0	1.5	1.0	1.5	1.5	1.5	1.5	1.5	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.5	3.0	3.0

Table 25 : Diatoms in Boughy Bay samples.

date	15-May			22-May			29-May			05-Jun			12-Jun			19-Jun			26-Jun			03-Jul			10-Jul			17-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.	1																													
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus		1												1		1			1											
Chaetoceros sp.	4	3	3	4	1	3	7	7	8	7	7	7	6	4	6	4	5	6	1											
Corethron hystrix																			9	10	3	5	4	3	3	4	3	5	3	3
Cylindrotheca closterium												1		1		1				1	1				1	1				
Coscinodiscus sp.				1																										
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus									1																	1		1		
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata							1	1								1														
Leptocylindrus danicus							1	1								1			1			1	1	1				1	1	1
Leptocylindrus minimus								1																						
Licmophora sp.																														
Melosira sp.																														
Navicula sp.	1																	2				1	1	1						
Nitzschioid sp.	2		1				2	1		2	1	1				1														
Pleurosigma/ Gyrosigma sp.								1		1		1	1	1	1	2	1	2	1	1	2	1				1	1	1		
Rhizosolenia setigera										1		1	1	1		1		1												
Rhizosolenia sp. (pointy)																											1			
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii														1		1		1	1	1		1	1	1			1	1	1	1
Skeletonema costatum	1		1			1		1			1	1	1	1	1	1	1	1	1											
Stephanopyxis sp.											1								1											
Thalassionema sp.														1			1	1	1	1	1			1		1	1			
Thalassiosira sp.	1	2	1	1	2	1	2	2	3	1	1	1	1	1	1	2	2	2	1	2	1	2	2	2	1	1	1	2	2	2
Triceratium sp.																						1								

Table 25 cont'd

date	24-Jul			31-Jul			07-Aug			14-Aug			21-Aug			30-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosiral/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	6	10	6	3	4	3	7	6	5	5	3	2	3	4	2	3	1	1	2	4	1	2	1	1	1		2	1	3	1
Corethron hystrix										1																				
Cylindrotheca closterium						1					1	1		1				1	1									1		
Coscinodiscus sp.																												1		
Dactylisolen sp.																														
Detonula pumila										1		1		1								1								
Ditylum brightwellii	1	1		1						1													1							
Eucampia zoodiacus			1					1																						
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1			1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1			1	1
Leptocylindrus minimus																1	1	1												
Licmophora sp.																														
Melosira sp.																1							1					1		
Navicula sp.												1				1			1	1										
Nitzschioid sp.			1		1		1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	
Pleurosigma/ Gyrosigma sp.						1													1											
Rhizosolenia setigera		1								1						1	1	1									1			
Rhizosolenia sp. (pointy)											1			1																
Rhizosolenia sp. (blunt)		1	1		1	1						1																		
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1		1	1	1
Stephanopyxis sp.																														
Thalassionema sp.					1			1		1							1			2							1			
Thalassiosira sp.	1	1	1	1	2	1	2	2	2	2	2	1	2	2	1	2	2	2	1	1	2	1	1	2	1	1	1	2	2	2
Triceratium sp.																														

Table 25 cont'd

date	03-Oct			10-Oct			17-Oct			24-Oct			30-Oct			09-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiproral Tropidoneis											1										
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Campylosira/Plagiogramma					1																
Cerautalina sp.																					
Chaetoceros concavicorne							1														
Chaetoceros convolutus								1											1	1	1
Chaetoceros sp.				1	2																1
Corethron hystrix																					
Cylindrotheca closterium																					
Coscinodiscus sp.																					
Dactylisolen sp.																					
Detonula pumila																					
Ditylum brightwellii																					
Eucampia zoodiacus																					
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus		1			1																
Leptocylindrus minimus																					
Licmophora sp.								1													
Melosira sp.						1									1						1
Navicula sp.					1	1															
Nitzschioid sp.								1													
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera																					
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)									1												
Rhizosolenia stolterfothii																					
Skeletonema costatum				1	1	1											1				
Stephanopyxis sp.																					
Thalassionema sp.					1	1									1						
Thalassiosira sp.	2	2	1	1	1	2	1	1	2				1	1			1		1		
Triceratium sp.																					

Table 26 : Dinoflagellates in Boughy Bay samples.

date	15-May			22-May			29-May			05-Jun			12-Jun			19-Jun			26-Jun			03-Jul			10-Jul			17-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																1							1	1						
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																													1	
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.											1							1												
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	1	1	1			4	3	5	2	1	3	3	2	3	4	2	1	2	4	2	2	3	1	2	2	3	2	3	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2	1	1	1	2	1	2	1	2	1			1				1	2	1	1										
Heterocapsa triquetra	1		1																			1	1		1	1		1	1	
Noctiluca scintillans																	1													
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	2			1	1		2	1	2		2	1	2	1	1	3	3	1		2	2		2	1	1	1	2	1	1	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 26 cont'd

date	24-Jul			31-Jul			07-Aug			14-Aug			21-Aug			30-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.															1															
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.		1																												
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	2	2	2	1	1	1	2	1	1	3		2	2	1	1	1		1	1		1			1				3	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1									1				1	1														1	
Heterocapsa triquetra			1																											1
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile									1																					
Prorocentrum micans																														
Prorocentrum sp.																	1	2												
Protoperidinioid sp.					1		1	1	1	4	1	2	2		1				1			1	2					2	3	2
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 26 cont'd

date	03-Oct			10-Oct			17-Oct			24-Oct			30-Oct			09-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus																					
Ceratium lineatum																					
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium polykrikoides																					
Cochlodinium sp.																					
Dinophysioid sp.																					
Gonyaulacoid sp.															1						
Gymnodinioid sp.	1	2	1	3	3	2	1	1	1	1	1	1							1		1
Gymnodinium galatheanum																					
Gyrodinium spirale-type				1																	
Heterocapsa triquetra																					
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxytoxum sp.																					
Polykrikos sp.																					
Prorocentrum gracile																					
Prorocentrum micans																					
Prorocentrum sp.																					
Protoperidinioid sp.					1									1							
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo																					

Table 27 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Boughy Bay samples.

date	15-May			22-May			29-May			5-Jun			12-Jun			19-Jun			26-Jun			3-Jul			10-Jul			17-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum													1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dinobryon balticum																														
Ebria tripartita							1											1												
Euglenoid													1																	
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	4	5	3	4	3	3	3	2	2	2	3	3	3	3	4	3	3	3	2	4	5	3	3	4	3	3	3	3
Zooplankton																														
Appendicularian																														
Bipinnaria																														
Ciliate		1	2	2	3	3	5	5	6	2		1	2	1	1	5	4	5	3	5		2	2	2		1	1	1		
Copepod																													1	
Fungus																														
Nauplius													1												1		1			
Pluteus																														
Rotifer																														
Tintinnid	1		1	2			4	1	1		1	2	1	1	1	1									1	1			1	
Zoea																														
other																														
Dominant Species/Group																														
name	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Chaetoceros spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	814	960	380	100	90	400	1200	1000	750	470	360	260	380	400	100	5000	2000	540	2200	2500	340	200	240	80	6000	5000	2400	1400	800	600
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	110	100	100	100	100	100	100	100	100	100	100
Diatoms	90	92	90	65	50	70	90	87	87	96	96	95	84	87	83	80	74	82	72	88	90	52	42	49	85	85	80	85	81	89
Dinoflagellates	7	6	7	10	8	8	4	3	3	2	2	2	10	10	14	10	20	8	5	7	5	10	20	10	10	10	14	12	15	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	2	2	2	1	1	1	1	1	1	2	1	1	2	1	2	18	10	5	35	35	38	2	3	4	2	2	1
Zooplankton	2	1	2	23	40	20	5	9	9	1	1	2	4	2	2	8	5	8	5	5	0	3	3	3	3	2	2	1	2	0
Biomass	3.5	3.5	3.0	3.0	2.5	3.0	4.0	4.0	3.5	4.0	4.0	3.5	3.5	3.5	3.5	4.0	3.5	3.0	3.5	3.5	3.0	3.0	3.0	2.5	3.0	3.0	3.0	3.5	3.0	2.5

Table 27 cont'd

date	24-Jul			31-Jul			7-Aug			14-Aug			21-Aug			30-Aug			4-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads									1																					
Dictyocha speculum	1	1	1							1	1			1					1	1	1	1	1		1	1	1	1	1	1
Dinobryon balticum																														
Ebria tripartita																						1								
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																			1											
unid. Nanoflagellates	3	6	3	3	3	4	3	3	3	3	2	2	4	3	3	4	2	3	3	3	2	2	4	1	3	2	3	2	4	3
Zooplankton																														
Appendicularian																														
Bipinnaria																														
Ciliate	1	3	2			1	1	1		1	1	1		1	1	2	3	4	3	4	1	2	2	2				1	3	1
Copepod																														
Fungus																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid	1	1	1					1		1	1																		1	
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	1700	2400	1200	1000	960	800	4000	3900	3000	5000	4600	3700	2000	1100	530	2900	260	210	640	520	180	100	40	40	8	10	8	680	1400	1700
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	95	92	82	89	90	95	91	90	80	82	85	93	89	85	90	97	97	97	92	91	93	70	80	90	80	90	85	90	73	80
Dinoflagellates	2	4	8	10	9	3	6	7	19	15	12	5	10	13	8	1	1	1	3	2	0	5	5	0	3	0	0	5	13	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	5	5	1	17	10	15	3	4	5
Zooplankton	1	2	2	0	0	1	2	2	0	2	2	1	0	1	1	1	1	1	3	5	5	20	10	9	0	0	0	2	10	5
Biomass	3.5	4.0	3.5	3.5	3.5	3.0	4.0	4.0	3.0	4.0	3.5	3.5	3.5	3.0	3.0	3.5	3.5	3.5	2.5	2.5	2.5	3.0	3.0	2.0	1.0	1.0	1.0	3.0	3.0	3.0

Table 27 cont'd

date	3-Oct			10-Oct			17-Oct			24-Oct			30-Oct			9-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum		1				1												1			
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid																					
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	5	3	2	2	3	4	3	4	4	3	3	4	4	3	4	5	4	4	4	5	3
Zooplankton																					
Appendicularian																					
Bipinnaria																					
Ciliate	1	2	1	3	4	1	3	3	2	3	2	1			1	1	2	2		1	
Copepod																					
Fungus																					
Nauplius																					
Pluteus																					
Rotifer																					
Tintinnid				1																	
Zoea																					
other																					
Dominant Species/Group																					
name	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Chrelcioneros debilis*	*Thalassionema nitzschioide*	*Thalassiosira spp.*	ciliates	*Pseudonitzschia sp.*	*Thalassiosira spp.*	ciliates	ciliates	ciliates	*Thalassiosira sp.*	*Protoperidinium sp.*	*Thalassionema sp.*	ciliates	*Skeletonema costatum*	*Dictyocha speculum*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Chaetoceros convolutus*
count (cells/mL)	~20	~10	~3	~20	36	~30	25	10	20	8	4	1	1	1	15	~1	~8	2	5	2	10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	60	40	70	80	85	25	50	65	0	10	0	25	25	50	0	50	0	65	30	75
Dinoflagellates	5	10	30	10	10	7	3	4	2	5	5	40	0	30	20	0	0	0	15	0	15
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	10	10	1	1	3	2	2	2	10	10	20	75	45	5	70	20	65	20	55	10
Zooplankton	10	20	20	19	9	5	70	44	31	85	75	40	0	0	25	30	30	35	0	15	0
Biomass	1.5	2.0	1.0	2.0	2.0	1.5	1.5	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.5	1.0	1.5	1.0	1.5

Table 28 : Diatoms in Fanny Bay samples.

date	05-Jun			12-Jun			19-Jun			26-Jun			03-Jul			10-Jul			24-Jul			31-Jul			07-Aug			14-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica				1																								1		
Bacteriastrum sp.																														
Biddulphia sp.		1	1																											
Campylosira/Plagiogramma																														
Cerautalina sp.			1						1																					
Chaetoceros concavicorne																														
Chaetoceros convolutus		1																												
Chaetoceros sp.	5	8	11	7	4	3	5	7	4	4	6	4	1				1								1		1	5	6	2
Corethron hystrix																														
Coscinodiscus sp.			1		1																									
Cylindrotheca closterium	1	1			1	1			1				1	1	1													1	1	
Dactyliosolen sp.																														
Detonula pumila	1	1	1	1																										
Ditylum brightwellii			1													1														
Eucampia zoodiacus			1	1	1		1			1		1																1		
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1	1		1	1						1																		
Leptocylindrus minimus																														
Licmophora sp.				1																										
Melosira sp.																		1							1					
Navicula sp.			1	1			1	1				1																1	1	
Nitzschioid sp.	1	2	1	1		1		1			1	1	1					1	1	1								1	1	1
Pleurosigma/ Gyrosigma sp.				1	1																									
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)											1																			
Rhizosolenia sp. (blunt)				1																										
Rhizosolenia stolterfothii		1	1																											
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1							1	1	1	1	1	1
Stephanopyxis sp.																												1		
Thalassionema sp.							1	1								1												1	1	
Thalassiosira sp.	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2				1	1		2	2	2

Table 28 cont'd

date	21-Aug			28-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																		
Achnanthes sp.																		
Amphiproral Tropidoneis										1								
Asterionella japonica					1	1	1			1	1					1	1	1
Bacteriastrum sp.																		
Biddulphia sp.											1	1		1			1	
Campylosira/Plagiogramma																		
Cerautalina sp.																		
Chaetoceros concavicorne																		
Chaetoceros convolutus																		
Chaetoceros sp.	6	3	3	5	7	5	6	5	6	7	7	5		5	2	6	6	9
Corethron hystrix									1									
Coscinodiscus sp.		1																
Cylindrotheca closterium	1						1		1						1			
Dactylisolen sp.							1											
Detonula pumila																		
Ditylum brightwellii								1	1	1	1	1		1		1	1	1
Eucampia zoodiacus		1		1	1	1	1	1		1	1	1		1		1	1	1
Grammatophora sp.			1															
Hemialus sp.																		
Lauderia annulata																		
Leptocylindrus danicus			1	1			1			1	1	1	1			1	1	1
Leptocylindrus minimus		1	1					1									1	1
Licmophora sp.																		
Melosira sp.	1	1	1	1			1											
Navicula sp.	1			1			1	1	1	1	1	1					1	
Nitzschioid sp.	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1	1
Pleurosigma/ Gyrosigma sp.	1									1								
Rhizosolenia setigera							1				1	1						1
Rhizosolenia sp. (pointy)																		
Rhizosolenia sp. (blunt)	1	1	1									1					1	1
Rhizosolenia stolterfothii									1									1
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1		1		1	1
Stephanopyxis sp.	1	1							1	1								
Thalassionema sp.	1					1								1				
Thalassiosira sp.	2	2	2	2	2	2	2	2	2	1	2	2	1	2	1	1	3	2

Table 29 : Dinoflagellates in Fanny Bay samples.

date	05-Jun			12-Jun			19-Jun			26-Jun			03-Jul			10-Jul			24-Jul			31-Jul			07-Aug			14-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																							1	1						
Amphidinium sp.	1		1			1					1	1																		
Ceratium divericatum																														
Ceratium furca																			1				1							
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum											1																			
Ceratium sp.																														
Cochlodinium sp.																														
Dinophysioid sp.	1	1		1	1		1			2	1	1	1	1	2	1		1	1		1		2	1						
Gonyaulacoid sp.								1																						
Gymnodinioid sp.	5	7	6	6	7	6	4	3	4	5	4	5	5	6	4	1	3	3	3	3	3	3	3	5	1			2	1	
Gymnodinium galatheanum																														
Gyrodinium spirale-type			1	2	3	4		1		1		1	1	2	2	1	1		1				1	2				2		1
Heterocapsa triquetra																1			1											
Noctiluca scintillans					1						1																			
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.															1		1													
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	5	5	2	3	3	2	5	3	2	3	1	4	3	4	2	1	4			3	3	3	3	5		1	2	1	1	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 29 cont'd

date	21-Aug			28-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																		
Alexandrium sp.																		
Amphidinium sp.											1							
Ceratium divericatum																		
Ceratium furca																		
Ceratium fusus											1							
Ceratium lineatum																		
Ceratium pentagonum																		
Ceratium sp.																		
Cochlodinium sp.																		
Dinophysioid sp.		1									1	1						1
Gonyaulacoid sp.											1							
Gymnodinioid sp.	2	2	1	2	1	2	2	1	1	4	4	6	2	2	1	5	3	3
Gymnodinium galatheanum																		
Gyrodinium spirale-type	2	1	2	1	1	1	1		1	1	2	2		1			1	1
Heterocapsa triquetra																		
Noctiluca scintillans																		
Noctilucoid sp.																		
Oxyrrhis marina																		
Oxytoxum sp.																		
Polykrikos sp.					1			1										
Prorocentrum gracile																		
Prorocentrum micans																		
Prorocentrum sp.																		
Protoperidinioid sp.		2	3	1	1	1				2	1	1	1		1	1		1
Pyrocystis lunula																		
Raphidophytes																		
Heterosigma akashiwo																		

Table 30 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Fanny Bay samples.

date	05-Jun			12-Jun			19-Jun			26-Jun			03-Jul			10-Jul			24-Jul			31-Jul			07-Aug			14-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1			1			1	1		1				1		1		1			1						
Dinobryon balticum																	1													
Ebria tripartita																							1	1						
Euglenoid	1	1								1	1		1	1	1															
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	3	2	4	3	4	3	2	3	3	3	4	3	4	3	3	3	4	3	4	4	3	3	2	2	3	3	3	3	3
Zooplankton																														
Appendicularian																														
Ciliate	5	4	2	5	6	4	3	5	5	5	6	3	1			1	3	1	2	1	1	3	3	2		2	2	2	1	
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid				1	1						1																			
Zoea																														
other																														
Dominant Species/Group																														
name	*Chaetoceros debilis*	*Chaetoceros debilis*	*Thalassiosira rotula*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	dinoflagellates	dinoflagellates	dinoflagellates	*Protoperidinium spp.*	*Protoperidinium spp.*	*Protoperidinium spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	1400	850	550	800	810	290	2200	1100	400	800	1400	1700	20	40	20	50	30	100	40	60	20	20	45	20	30	50	35	12500	3600	3000
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	70	80	92	55	50	55	80	75	65	60	53	70	30	15	20	60	48	87	12	15	10	0	0	0	95	92	90	90	96	97
Dinoflagellates	18	15	5	35	40	36	15	15	20	25	30	24	45	77	75	33	40	10	85	83	87	55	65	85	4	3	4	7	2	2
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	1	1	2	1	1	1	1	1	3	3	1	20	8	5	2	4	1	1	1	2	1	2	3	1	1	1	1	1	1
Zooplankton	10	4	2	8	9	8	4	9	14	12	14	5	5	0	0	5	8	2	2	1	1	44	33	12	0	4	5	2	1	0
Biomass	3.5	4.0	4.0	4.0	4.0	4.0	3.0	3.0	2.5	3.0	3.5	3.5	1.0	1.5	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.5	1.5	1.0	1.0	1.0	4.5	4.0	3.5

Table 30 cont'd

date	21-Aug			28-Aug			04-Sep			11-Sep			18-Sep			25-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																		
Cryptomonads																		
Dictyocha speculum					1													
Dinobryon balticum																		
Ebria tripartita																		
Euglenoid																		
Phaeocystis pouchetii																		
Radiolarian																		
unid. Nanoflagellates	4	2	2	3	3	4	3	3	3	4	3	3	4	3	3	3	5	5
Zooplankton																		
Appendicularian	1																	
Ciliate	4	4	2	2	1	2	4	4	4	8	3	2	2	1		4	3	2
Copepod																		
Nauplius												1						
Pluteus																		
Rotifer																		
Tintinnid	2					1										1		
Zoea																		
other																		
Dominant Species/Group																		
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros debilis*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira rotula*	*Pseudonitzschia sp.*	*Chaetoceros spp.*	*Thalassiosira aestivalis*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*
count (cells/mL)	6000	3700	3200	120	250	100	2000	600	770	800	1000	1700	20	60	50	150	450	350
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	93	83	92	90	90	86	85	90	90	78	75	85	59	85	85	80	90	87
Dinoflagellates	2	10	5	8	8	10	5	5	5	10	15	10	25	12	14	15	7	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1
Zooplankton	4	6	2	1	1	3	9	4	4	10	8	4	15	2	0	4	2	2
Biomass	4.0	4.0	3.5	3.5	3.5	3.0	3.5	3.5	3.5	3.5	3.5	3.5	1.5	3.0	2.5	3.5	4.0	4.0

Table 31 : Diatoms in Chancellor Channel samples.

date	16-May			25-May			1-Jun			8-Jun			15-Jun			22-Jun			29-Jun			6-Jul			13-Jul			20-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.														1																
Amphiproral Tropidoneis																														
Asterionella japonica															1															
Bacteriastrum sp.																														
Biddulphia sp.			1																											
Campylosiral/Plagiogramma																														
Cerautalina sp.		1																												
Chaetoceros concavicorne																														
Chaetoceros convolutus											1																			
Chaetoceros sp.	3	3	2		1				1	1	1		3	2	2	1		1	1	3	1	1	1	1						
Corethron hystrix	1																										1			1
Coscinodiscus sp.			1																											
Cylindrotheca closterium										1		1		1			1				1						1			
Dactylisolen sp.																														
Detonula pumila	1	1																	1											
Ditylum brightwellii		1					1													1										
Eucampia zoodiacus																	1													
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1			1		1	1					1																
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.							1		1					1		1		1		1			1				1	1	1	
Navicula sp.								1			1						1	1												
Nitzschioid sp.	1						1		1		1	1			1		2		1	1							1	1		
Pleurosigmal Gyrosigma sp.																														
Rhizosolenia setigera																				1										
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)									1		1								1											
Rhizosolenia stolterfothii	1	1	1				1									1														
Skeletonema costatum	1	1	1		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1		1	1		1	1
Stephanopyxis sp.			1	1																		1								
Thalassionema sp.	1		1					1								1											1			
Thalassiosira sp.	1	2	1	1	1		2	1	1	1	1	1	1	1	1	1	1	1	1	2	1		1	1	1	1	1	1	1	1

Table 31 cont'd

date	27-Jul			3-Aug			10-Aug			17-Aug			24-Aug			31-Aug			7-Sep			14-Sep			21-Sep			28-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																						1								
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus					1	1				1	1	1		1	1															
Chaetoceros sp.					1	1					1		1					1						1						
Corethron hystrix		1												1	1		1			1	1		1				1		1	1
Coscinodiscus sp.																														
Cylindrotheca closterium	1																													
Dactylisolen sp.																														
Detonula pumila																				1										
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus					1																								1	
Leptocylindrus minimus																														
Licmophora sp.														1	1															
Melosira sp.	1	1		1					1		1			1		1	1	1		1	1								1	
Navicula sp.										1								1				1								
Nitzschioid sp.										1	1	1				1													1	
Pleurosigma/ Gyrosigma sp.																												1		
Rhizosolenia setigera						1					1	1																		
Rhizosolenia sp. (pointy)																											1			
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1			1			1		1	1	1	1						
Stephanopyxis sp.																														
Thalassionema sp.										1														1						
Thalassiosira sp.	1	1	1	1	1	1		1	1	1	1	1	1	1	1				1	1	1	1	1	1	1				1	1

Table 31 cont'd

date	5-Oct			12-Oct		
depth	1m	5m	10m	1m	5m	10m
Diatoms						
Achnanthes sp.						
Amphiproral Tropidoneis						
Asterionella japonica						
Bacteriastrum sp.						
Biddulphia sp.						
Campylosiral Plagiogramma						
Cerautalina sp.						
Chaetoceros concavicorne						
Chaetoceros convolutus				1		
Chaetoceros sp.				1		
Corethron hystrix				1	1	
Coscinodiscus sp.					1	
Cylindrotheca closterium						
Dactylisolen sp.						
Detonula pumila						
Ditylum brightwellii				1	1	
Eucampia zoodiacus					1	
Grammatophora sp.						
Hemialus sp.						
Lauderia annulata						
Leptocylindrus danicus						
Leptocylindrus minimus						
Licmophora sp.						
Melosira sp.					1	
Navicula sp.						
Nitzschioid sp.				1	1	1
Pleurosigma/ Gyrosigma sp.						
Rhizosolenia setigera	1					
Rhizosolenia sp. (pointy)						
Rhizosolenia sp. (blunt)						
Rhizosolenia stolterfothii						
Skeletonema costatum				1	1	
Stephanopyxis sp.						
Thalassionema sp.						
Thalassiosira sp.		1	1	2	2	2

Table 32 : Dinoflagellates in Chancellor Channel samples.

date	16-May			25-May			1-Jun			8-Jun			15-Jun			22-Jun			29-Jun			6-Jul			13-Jul			20-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.						1	1							1			2								1	1				
Gonyaulacoid sp.																														
Gymnodinioid sp.			1	3	1	1	2	1	1	3	2	1		1	1	2	1	1	2	1	2	2	1	1	2	1	1	1	1	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1			1					1		1						2	1				1							
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.		1								1	1	1	4	3	1	1		1	1		1					1	1			
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 32 cont'd

date	27-Jul			3-Aug			10-Aug			17-Aug			24-Aug			31-Aug			7-Sep			14-Sep			21-Sep			28-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.						1															1									
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.				1			1								1						1									
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	1		1	2	1	1		1	1	1	1	2	2	1	1	1	2	2		1	1	1	1				1		
Gymnodinium galatheanum																														
Gyrodinium spirale-type								1				1			1			1			1							1		
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.							1		1			1										1								
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 32 cont'd

date	5-Oct			12-Oct		
depth	1m	5m	10m	1m	5m	10m
Dinoflagellates						
Alexandrium sp.						
Amphidinium sp.						
Ceratium divericatum						
Ceratium furca						
Ceratium fusus						
Ceratium lineatum						
Ceratium pentagonum						
Ceratium sp.						
Cochlodinium polykrikoides						
Cochlodinium sp.						
Dinophysioid sp.						
Gonyaulacoid sp.						
Gymnodinioid sp.	2		1	1	1	1
Gymnodinium galatheanum						
Gyrodinium spirale-type				1		
Heterocapsa triquetra						1
Noctiluca scintillans						
Noctilucoid sp.						
Oxyrrhis marina						
Oxytoxum sp.						
Polykrikos sp.						
Prorocentrum gracile						
Prorocentrum micans						
Prorocentrum sp.						
Protoperidinioid sp.	1	1		1	1	
Pyrocystis lunula						
Raphidophytes						
Heterosigma akashiwo						

Table 33 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Chancellor Channel samples.

date	16-May			25-May			1-Jun			8-Jun			15-Jun			22-Jun			29-Jun			6-Jul			13-Jul			20-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum		1		1			1	1	1	1	1	1		1	1	1	1	1		1								1		
Dinobryon balticum																														
Ebria tripartita												1																		
Euglenoid																							1							
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	4	3	2	4	3	3	2	3	3	2	2	3	5	3	2	2	3	3	4	4	3	3	4	4	2	3	2
Zooplankton																														
Appendicularian																														
Ciliate	1	1	1	2	2	1	2	2	1	1	2	1	2	1		1	1	2	1	1	2				1		1	1	1	1
Copepod																														
Nauplius																														
Pluteus			1																											
Rotifer																														
Tintinnid								1															1			1				
Zoea																						1								
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Leptocylindrus danicus*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Dictyocha speculum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	dinoflagellates	*Skeletonema costatum*	*Skeletonema costatum*	diatoms	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	2000	1800	1000	5	9	5	200	120	80	12	80	54	800	700	3000	1200	2700	1400	1400	1200	800	60	10	25	20	120	60	10	40	10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	80	80	25	30	35	47	58	73	30	40	40	70	80	90	74	67	61	86	92	87	70	60	79	10	60	70	60	80	74
Dinoflagellates	2	14	10	30	35	30	30	15	15	30	20	23	20	17	5	20	25	30	10	4	8	28	36	20	80	35	25	10	10	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	20	5	5	3	2	2	39	38	35	1	1	5	2	4	5	1	2	1	1	2	1	1	1	1	20	1	1
Zooplankton	7	5	9	25	30	30	20	25	10	1	2	2	9	2	0	4	4	4	3	2	4	1	2	0	9	4	4	10	9	5
Biomass	3.5	3.5	3.5	1.0	1.0	1.0	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	3.0	3.0	3.0	1.0	1.0	1.0	1.0	2.0	1.5	1.0	1.5	1.0

Table 33 cont'd

date	27-Jul			3-Aug			10-Aug			17-Aug			24-Aug			31-Aug			7-Sep			14-Sep			21-Sep			28-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1			1				1	1																			
Dinobryon balticum																														
Ebria tripartita																									1	1				
Euglenoid							1	1																						
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	2	2	4	4	3	4	3	3	3	2	3	3	3	4	4	3	3	3	4	2	5	2	2	5	2	3	4	3	3
Zooplankton																														
Appendicularian																														
Ciliate	1			3	1	1	4	1	2	2	4	2	2	1			1	1	4	2	2	2	1	1	2	1		2	1	2
Copepod											1																			
Nauplius																														
Pluteus																														
Rotifer												1									1									
Tintinnid			1																											
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Skeletonema costatum*	*Melosira sulcata*	*Melosira sulcata*	*Skeletonema costatum*	*Thalassiosira sp.*	ciliates & tintinnids	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	ciliates	ciliates	diatoms	*Gymodinium sp.*	*Leptocylindrus danicus*	cilietes
count (cells/mL)	20	40	150	120	220	200	230	150	80	100	350	150	30	20	10	10	10	18	60	6	6	10	10	20	5	3	3	2	8	3
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	92	96	64	85	85	60	90	80	93	92	93	85	87	70	90	88	70	50	60	30	55	65	80	10	0	90	10	90	50
Dinoflagellates	5	4	0	10	10	10	15	5	10	4	2	3	10	10	29	9	9	28	10	0	30	20	20	15	0	0	0	30	0	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	4	2	1	1	2	2	2	1	1	1	1	1	1	0	1	1	1	10	20	5	4	2	1	30	30	10	10	5	10
Zooplankton	10	0	2	25	4	3	23	3	9	2	5	3	4	2	0	0	2	1	30	20	35	21	13	4	60	70	0	50	5	40
Biomass	1.0	1.5	2.0	2.0	2.5	2.5	2.5	2.0	1.5	2.5	3.0	2.5	2.0	2.0	1.5	1.0	1.0	1.5	1.5	1.5	1.5	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.5	1.0

Table 33 cont'd

date	5-Oct			12-Oct		
depth	1m	5m	10m	1m	5m	10m
Other Flagellates						
Cryptomonads						
Dictyocha speculum					1	1
Dinobryon balticum						
Ebria tripartita						
Euglenoid						
Phaeocystis pouchetii						
Radiolarian		1				
unid. Nanoflagellates	3	4	3	3	4	5
Zooplankton						
Appendicularian						
Ciliate	4	2	1	2	2	2
Copepod						
Nauplius						
Pluteus						
Rotifer						
Tintinnid	1	1				
Zoea						
other						
Dominant Species/Group						
name	ciliates & tintinnids	ciliates	*Thalassiosira sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*
count (cells/mL)	~20	~4	~5	15	70	20
% constituent	100	100	100	100	100	100
Diatoms	2	10	75	80	90	70
Dinoflagellates	20	10	10	10	5	10
Raphidophytes	0	0	0	0	0	0
Other Flagellates	2	10	5	3	2	5
Zooplankton	76	70	10	7	3	15
Biomass	1.5	1.0	1.0	1.5	2.5	1.5

Table 34 : Diatoms in Brougham Point samples.

date	2-Jun			9-Jun			16-Jun			23-Jun			14-Jul			2-Aug			16-Aug			25-Aug			3-Sep			12-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica	1	1			1																		1							
Bacteriastrum sp.																														
Biddulphia sp.													1							1										
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus				1			1																							
Chaetoceros sp.	4	3	3	3	5	5	3	2	3	3	2	3	3	2	1				1	1	1		2				1		1	2
Corethron hystrix																		1												
Coscinodiscus sp.							1																		1					
Cylindrotheca closterium					1		1	1	1					1	1					1	1									
Dactylisolen sp.																														
Detonula pumila	1		1																											
Ditylum brightwellii																														
Eucampia zoodiacus				1			1			1																				
Grammatophora sp.																														
Hemialus sp.		1																												
Lauderia annulata	1	1																1												
Leptocylindrus danicus	1	1	1			1							1							1			1			1	1	1		1
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.			1										1	1	1			1			1									1
Navicula sp.				1		1														1			1		1					
Nitzschioid sp.	2	1	1	1	2		1	1					1	1	1			1		1		1							1	
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																					1		1	1						
Rhizosolenia sp. (pointy)								1																						
Rhizosolenia sp. (blunt)						1																								
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Stephanopyxis sp.																														
Thalassionema sp.				1		1							1								1									
Thalassiosira sp.	1	1	1	2	1	1	1	1	1	1	1	1	1			1	1		1	2		2	1	1	1	1	1			

Table 34cont'd

date	18-Sep			25-Sep			2-Oct			9-Oct			15-Oct			23-Oct			29-Oct			5-Nov			12-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.					1						1			1						1					1					
Corethron hystrix																														
Coscinodiscus sp.								1																	1	1				
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii			1			1								1					1											
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1																												
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.	1	1	1							1				1	1												1			1
Navicula sp.		1					1								1															
Nitzschioid sp.				1		1			1					1											1					
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera		1														1	1		1							1				
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1		1	1	1				1			1												1		1			
Stephanopyxis sp.																														
Thalassionema sp.																				1										
Thalassiosira sp.	1	1				1	1				1		1						2	2			1		1					1

Table 35 : Dinoflagellates in Brougham Point samples.

date	2-Jun			9-Jun			16-Jun			23-Jun			14-Jul			2-Aug			16-Aug			25-Aug			3-Sep			12-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																				1										
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																							1							
Dinophysioid sp.					1	1						1		1																
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	2	1		2	1	1	1	1	1	1	1	1	2	1	1	2	2	2	1	1		5	3	3	3	2	5			
Gymnodinium galatheanum									1	1			1	1			1		1		1		1			1	1	1		1
Gyrodinium spirale-type																														
Heterocapsa triquetra				1		1																								
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																								1						
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	1	1	6	3	3	2		1							2				3	1	1		1	2			1	1	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 35 cont'd

date	18-Sep			25-Sep			2-Oct			9-Oct			15-Oct			23-Oct			29-Oct			5-Nov			12-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.						1																								
Amphidinium sp.	1																													
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Dinophysioid sp.									1						1				1								1			
Diplopsalis sp.															1															
Gonyaulacoid sp.						1																								
Gymnodinioid sp.	2	1	3		1	1	1	2	3	1		2	2	1		2	2	1		1	1	1			1	2	2			1
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	2							1	1								1												
Heterocapsa triquetra				1		1							1			1	1													
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1	1	1	1	1		2			1	1	1	2			1		1									1			
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo	1		1						1																					

Table 36 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Brougham Point samples.

date	2-Jun			9-Jun			16-Jun			23-Jun			14-Jul			2-Aug			16-Aug			25-Aug			3-Sep			12-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1			1	1		1	1	1	1		1	1	1	1			1								1	
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	6	6	2	3	3	2	4	3	3	3	2	5	3	2	4	3	1	2	4	3	5	3	2	3	4	3	3
Zooplankton																														
Appendicularian																														
Ciliate	2	3	2	1	1	1	1	1	1	1	2	1	3	1	2	3	2	1	1		1	1	2	1	3	1	3	3	3	3
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid				1				1		1							1													
Zoea																														
other																			1											
Dominant Species/Group																														
name	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	diatoms	*Thalassiosira sp.*	diatoms	ciliates	diatoms	*Chaetoceros spp.*
count (cells/mL)	210	400	84	180	150	50	80	56	20	1300	260	110	960	240	400	25	40	50	900	1900	2400	20	50	20	~30	8	~20	7	10	15
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	88	89	75	85	80	86	90	84	75	80	80	62	85	90	25	38	80	95	84	95	55	47	47	40	55	50	0	42	65
Dinoflagellates	10	9	5	22	12	18	10	5	12	4	1	3	15	10	5	30	30	14	3	15	3	35	40	38	20	15	30	20	10	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	2	2	1	2	2	1	18	15	15	3	1	1	10	2	2	1	1	1	5	3	5	15	15	10	20	15	5
Zooplankton	4	2	5	1	1	1	2	3	3	3	4	2	20	4	4	35	30	4	1	0	1	5	10	10	25	15	10	60	33	20
Biomass	3.0	3.5	2.5	3.0	2.5	2.0	1.5	1.5	1.5	3.5	2.5	2.5	3.5	2.5	2.5	1.5	1.5	2.0	2.5	3.5	2.0	2.0	1.5	1.0	1.5	1.5	1.5	1.0	1.0	1.5

Table 36 cont'd

date	18-Sep			25-Sep			2-Oct			9-Oct			15-Oct			23-Oct			29-Oct			5-Nov			12-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1		1			1		1	1		1	1		1										1		1	1		
Dinobryon balticum																														
Ebria tripartita			1																											
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	5	5	3	2	4	3	3	2	3	3	4	5	2	2	4	3	4	4	4	4	6	3	4	3	2	3	4	4	2
Zooplankton																														
Appendicularian																														
Ciliate	1	2	2	1		2	2	1	3	3	3	2	2	1	1	1	1	1				1	1	1	2	1	4	1	1	1
Copepod																														
Nauplius													1																	
Pluteus																														
Rotifer																						1				1				
Tintinnid					1																									
Zoea																														
other																1														
Dominant Species/Group																														
name	diatoms	diatoms	diatoms	dinoflagellates	diatoms	*Skeletonema costatum*	dinoflagellates	dinoflagellates	dinoflagellates	*Skeletonema costatum*	ciliates	ciliates	dinoflagellates	*Pseudonitzschia sp.*	*Melosira sulcata*	dinoflagellates	dinoflagellates	dinoflagellates	*Thalassiosira spp.*	*Thalassiosira spp.*	*Gymnodinium sp.*	*Gymnodinium sp.*	ciliates	ciliates	diatoms	tintinnid sp.	dinoflagellates	ciliates	ciliates	*Thalassiosira sp.*
count (cells/mL)	~30	~50	~20	3	10	60	~4	~3	~8	75	10	15	~20	16	~20	10	5	4	5	4	1	2	2	1	~20	2	~10	4	2	2
% constituent	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	45	40	50	30	50	75	15	25	30	45	58	0	15	88	50	25	30	0	85	82	0	0	15	0	70	20	10	0	0	50
Dinoflagellates	42	25	20	40	30	20	35	30	35	40	10	30	55	5	35	60	55	70	10	10	35	25	0	0	5	25	50	0	0	15
Raphidophytes	1	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	8	15	10	25	10	2	20	20	12	5	2	4	10	2	5	5	7	10	5	8	65	50	55	85	5	5	10	60	60	25
Zooplankton	3	20	19	5	10	3	30	25	20	10	30	66	20	5	10	10	8	20	0	0	0	25	30	15	20	50	30	40	40	10
Biomass	1.5	1.5	1.5	1.0	1.0	1.5	1.0	1.0	1.5	2.5	1.0	1.0	1.5	1.5	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.5	1.0	1.0	1.0

Table 37 : Diatoms in Raza Island samples.

date	17-May			24-May			01-Jun			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																											1			
Amphiprora/ Tropidoneis																										1	1			
Asterionella japonica					1							1									1									
Bacteriastrum sp.																														
Biddulphia sp.		1	1		1																									
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														1
Chaetoceros convolutus	1	1	1	1	1	1	1	1	1			1	1	1					1								1			
Chaetoceros sp.	7	6	6	4	3	5		3	4		5	8	2	2	3	1	4	4		2	2	3	5	4	3	3	6			
Corethron hystrix			1																				1							
Coscinodiscus sp.																														
Cylindrotheca closterium							1	1	1	1	1	1	1	1	1		1	1		1	1			1		1	1			
Dactyliosolen sp.																														
Detonula pumila				1	1	1																								
Ditylum brightwellii																														
Eucampia zoodiacus												1		1	1					1			1	1		1	1	1		
Grammatophora sp.																														
Hemialus sp.										1																				
Lauderia annulata																														
Leptocylindrus danicus	1	1	1		1	1			1								1	1				1			1	1	1	1		
Leptocylindrus minimus																														
Licmophora sp.			1				1	1			1					1			1			1	1		1	1	1			1
Melosira sp.																														
Navicula sp.		1			1				1	1	1	1					1				1	1				1				1
Nitzschioid sp.		1			1	1	2	1	2	1	2	1			1	1	2	1		1	2	1	2	1		1	1	1	1	1
Pleurosigma/ Gyrosigma sp.																											1			
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)					1	1									1							2	1	1	1	1	1			
Rhizosolenia sp. (blunt)		1	1									1					1							1			1			
Rhizosolenia stolterfothii	1	1	1	1	1	1			1									1					1	1		1	1			
Skeletonema costatum	1	1	1	1	1	1			1	1	1	1		1		1	1		1	1	1	1	1	1		1	1	1	1	1
Stephanopyxis sp.																											1			
Thalassionema sp.							1																		1		1			
Thalassiosira sp.	2	2	1	1	1	1	1	2	2		1	2	1	1	1	1	2	2		2	1						1	1	1	1

Table 37 cont'd

date	27-Jul			02-Aug			09-Aug			16-Aug			23-Aug			31-Aug			06-Sep			13-Sep			20-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														1
Chaetoceros convolutus																						1								
Chaetoceros sp.										1	5	1		4	4		2	1	1	2	2							1		
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium									1		1															1			1	
Dactyliosolen sp.																														
Detonula pumila											1																			
Ditylum brightwellii										1		1	1	1	1															
Eucampia zoodiacus	1													1																
Grammatophora sp.							1	1															1			1	1			
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1								1			1																
Leptocylindrus minimus															1													1		
Licmophora sp.						1			1						1	1					1									
Melosira sp.									1											1										
Navicula sp.														1							1								1	
Nitzschioid sp.	1		1				1	1	1						1		1			1										1
Pleurosigma/ Gyrosigma sp.		1															1													
Rhizosolenia setigera										1	1		1	1	1															
Rhizosolenia sp. (poinity)	1																													
Rhizosolenia sp. (blunt)										1				1	1															
Rhizosolenia stolterfothii	1										1																			
Skeletonema costatum						1	1	1	1	1	1	1	1	1	1	1	1	1												
Stephanopyxis sp.												1																		
Thalassionema sp.									1			1		1	1															
Thalassiosira sp.		1		1	1	1	2	2	2	1	2	2		1	2		2	1			1									1

Table 37 cont'd

date	11-Oct			18-Oct			25-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms									
Achnanthes sp.								1	
Amphiproral Tropidoneis									
Asterionella japonica									
Bacteriastrum sp.									
Biddulphia sp.				1					
Campylosiral Plagiogramma									
Cerautalina sp.									
Chaetoceros concavicorne						1			
Chaetoceros convolutus	1	1							1
Chaetoceros sp.	1			1	3	2			
Corethron hystrix				1	1	1			
Coscinodiscus sp.									
Cylindrotheca closterium									
Dactylisolen sp.									
Detonula pumila									
Dityium brightwellii						1			
Eucampia zoodiacus									
Grammatophora sp.									
Hemialus sp.									
Leudenia annulata									
Leptocylindrus danicus			1		1	1			
Leptocylindrus minimus									
Licmophora sp.									
Melosira sp.				1	1				
Navicula sp.						1			
Nitzschioid sp.					1				
Pleurosigma/ Gyrosigma sp.									
Rhizosolenia setigera				1	1	1			
Rhizosolenia sp. (pointy)									
Rhizosolenia sp. (blunt)									
Rhizosolenia stolterfothii					1				
Skeletonema costatum						1		1	
Stephanopyxis sp.									
Thalassionema sp.									
Thalassiosira sp.	1	2	1		2				1

Table 38 : Dinoflagellates in Raza Island samples.

date	17-May			24-May			01-Jun			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																								1						
Amphidinium sp.																						1	1	1						
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																1													1	
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.											1	1																		
Dinophysioid sp.	1	1		1		1				1	1		2	2			1	1				1			1					
Gonyaulacoid sp.																						1	1		1		1			
Gymnodinioid sp.	1	3	3	3	3	2	6	7	4	6	7	5	2	4	3	4	4	4	4	5	5	4	4	3	3	3	2	1	1	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type					1		1	2	1	1	3	1	1	1			1	1	1	2	2		2	2	1	1	2			
Heterocapsa triquetra		1	1								1		1						1	1	1	1							1	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.							1						1																	
Prorocentrum gracile																						1	1	1				1	1	1
Prorocentrum micans																												1		
Prorocentrum sp.																														
Protoperidinioid sp.	4	4	3	2	3	2	5	5	2	2	5	6	2	1		3	2			2	2	1	2		1		2	3	1	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 38 cont'd

date	27-Jul			02-Aug			09-Aug			16-Aug			23-Aug			31-Aug			06-Sep			13-Sep			20-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																	1													
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus	1							1					1	1																
Ceratium lineatum	1																													
Ceratium pentagonum																														
Ceratium sp.		1																												
Cochlodinium sp.														1					1											
Dinophysioid sp.	1	2	1	1							1		2	1					1			1					1			
Gonyaulacoid sp.																		1												
Gymnodinioid sp.	7	3	2	1	1	1	1	1	1	1	2	1	4	5	3	1	1		2	1	1	2	3	1	2	1	4	6	7	3
Gymnodinium galatheanum																						1					1		1	
Gyrodinium spirale-type												2			1															
Heterocapsa triquetra																									1	1		1	1	1
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile	1	1	1																											
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	3	4	2	2	1	1				3	1	1	6	2	2	1	1			1					2	1	3	1	1	1
Pyrocystis lunula	1									1				1																
Raphidophytes																														
Heterosigma akashiwo											1	1																		

Table 38 cont'd

date	11-Oct			18-Oct			25-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates									
Alexandrium sp.									
Amphidinium sp.									
Ceratium divericatum									
Ceratium furca									
Ceratium fusus									
Ceratium lineatum									
Ceratium pentagonum									
Ceratium sp.									
Cochlodinium sp.									
Dinophysioid sp.				1	1	1			
Gonyaulacoid sp.									
Gymnodinioid sp.	1	2	2	3	3	2	1	1	
Gymnodinium galatheanum									
Gyrodinium spirale-type	1		1	1					1
Heterocapsa triquetra	1	1	1	1	1	1			
Noctiluca scintillans									
Noctilucoid sp.									
Oxyrrhis marina									
Oxytoxum sp.									
Polykrikos sp.									
Prorocentrum gracile									
Prorocentrum micans									
Prorocentrum sp.	1								
Protoperidinioid sp.		1	1						
Pyrocystis lunula									
Raphidophytes									
Heterosigma akashiwo									

Table 39 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Raza Island samples.

date	17-May			24-May			01-Jun			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1						1			1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1
Dinobryon balticum										1									1				1				1			
Ebria tripartita											1	1	1				1	1			1									
Euglenoid	1	1		1																										
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	4	3	3	2	3	4	4	4	4	4	3	3	4	3	4	4	3	4	2	4	2	3	4	4	3	2	3	5
Zooplankton																														
Appendicularian																														
Ciliate	3	1	2	3	1		5	5	1	5	6	4	2	2	1	5	5	5	6	3	3	4	2	2	3	4	2	3	3	1
Copepod																														
Nauplius						1							1				1													
Pluteus																										1				
Rotifer							1		1	1																				
Tintinnid				1		1	1				2	1			1		1		3			2	1	1				1		
Zoea																			1											
other																														
Dominant Species/Group																														
name	*Chaetoceros convolutus*	*Chaetoceros spp*	*Chaetoceros convolutus*	*Skeletonema costatum*	*Skeletonema costatum*	*Rhizosolenia stolterfothii*	dinoflagellates	dinoflagellates	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Dinophysis spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	ciliates	*Gymnodinium spp.*	*Gymnodinium spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp*	*Skeletonema costatum*	*Skeletonema costatum*	*Euampia zoodiacus*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	30	1500	46	200	400	250	60	50	100	500	900	200	40	60	40	50	85	50	80	85	60	380	1200	260	100	200	460	140	1600	1800
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	85	90	70	72	85	35	35	75	65	43	50	27	40	45	10	25	25	5	25	35	59	61	65	65	70	67	66	60	70
Dinoflagellates	5	12	5	21	25	12	40	40	20	15	35	35	60	56	52	20	20	20	20	45	39	30	30	25	20	15	18	30	34	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	1	1	1	1	1	1	1	3	2	5	8	2	1	45	40	40	10	20	18	1	4	5	2	1	2	1	3	7
Zooplankton	3	1	4	8	2	2	24	24	4	17	20	10	5	2	2	25	15	15	65	10	8	10	5	5	13	14	13	3	3	3
Biomass	3.5	3.5	3.5	3.5	3.5	4.0	2.5	2.5	2.5	2.5	3.5	3.5	3.0	3.0	2.5	2.5	3.0	3.0	3.0	3.5	3.5	3.5	4.0	3.5	1.5	1.5	3.5	3.0	2.5	2.5

Table 39 cont'd

date	27-Jul			02-Aug			09-Aug			16-Aug			23-Aug			31-Aug			06-Sep			13-Sep			20-Sep			04-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1		1	1	1	1	1				1		1				1						1			1	1	
Dinobryon balticum																														
Ebria tripartita	1						1				1		1															1		
Euglenoid							1	1	1																					
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	5	2	2	4	3	3	3	4	2	3	4	3	2	2	2	2	2	1	2	2	4	3	3	3	4	3	4	4	5
Zooplankton																														
Appendicularian																														
Ciliate	3	1	2	2	2	1	3	1	2		2	2	6	3	1		1	3	2	2	3	3	3	2	3		2	1	2	3
Copepod		1																												
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid	1						1	1														1			1		1			
Zoea																														
other	1		1																											
Dominant Species/Group																														
name	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Dictyocha speculum*	dinoflagellates	*Dictyocha speculum*	*Thalassiosira aestivalis*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	dinoflagellates	*Rhizosolenia setigera*	*Skeletonema costatum*	diatoms	diatoms	diatoms	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	ciliates	ciliates	ciliates	dinoflagellates	*Heterocapsa triquetra*	dinoflagellates	dinoflagellates	dinoflagellates	dinoflagellates
count (cells/mL)	280	80	60	40	9	20	1600	350	500	810	2100	3000	50	16	210	10	100	25	15	25	45	40	20	10	7	3	~15	~20	~20	~15
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	38	36	10	5	5	45	78	80	75	89	85	90	34	50	75	50	97	89	25	70	75	4	4	0	0	5	2	30	5	35
Dinoflagellates	35	30	33	84	35	20	5	10	5	10	8	7	45	44	22	30	1	5	32	15	8	40	47	20	50	75	63	55	70	40
Raphidophytes	0	0	0	0	0	0	0	0	0	0	4	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	24	33	55	1	50	30	7	5	10	1	1	1	1	1	1	20	1	1	15	5	2	1	1	2	10	20	25	10	10	10
Zooplankton	3	1	2	10	10	5	10	5	10	0	2	2	20	5	2	0	1	5	28	10	15	55	48	78	40	0	10	5	15	15
Biomass	3.0	2.5	2.0	2.0	1.5	1.5	3.0	2.0	2.0	2.0	3.5	4.0	2.0	3.0	3.0	1.5	2.0	1.5	1.0	1.5	1.5	2.0	2.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5

Table 39 cont'd

date	11-Oct			18-Oct			25-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates									
Cryptomonads									
Dictyocha speculum	1	1			1				1
Dinobryon balticum									
Ebria tripartita	1								
Euglenoid									
Phaeocystis pouchetii									
Radiolarian									
unid. Nanoflagellates	5	3	4	3	3	5	3	5	4
Zooplankton									
Appendicularian									
Ciliate	2	1	1	3	2	2	1	1	1
Copepod									
Nauplius							1		
Pluteus									
Rotifer									
Tintinnid		1	1	1	1				
Zoea									
other									
Dominant Species/Group									
name	*Thalassiosira minima*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Gymnodinium spp.*	*Rhizosolenia setigera*	*Corethron hystrix*	ciliates	*Rhizosolenia setigera*	*Rhizosolenia setigera*
count (cells/mL)	25	20	30	30	10	5	2	3	10
% constituent	95	100	100	100	100	100	100	100	100
Diatoms	75	50	35	30	55	60	0	60	80
Dinoflagellates	10	40	60	55	30	30	10	10	5
Raphidophytes	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	1	1	1	1	10	10	10
Zooplankton	5	5	4	14	14	9	80	20	5
Biomass	1.5	1.5	1.5	3.5	3.5	3.0	1.0	1.0	1.5

Table 40 : Diatoms in Homfray Creek samples.

date	23-Mar			30-Mar			13-Apr			20-Apr			27-Apr			25-May			01-Jun			08-Jun			15-Jun			29-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																												1		
Amphiproral Tropidoneis																									1					
Asterionella japonica																														
Bacteriastrum sp.																														1
Biddulphia sp.		1		1						1																				
Campylosiral Plagiogramma																														
Cerautalina sp.										1				1	1															
Chaetoceros concavicorne			1					1						1	1					1					1					1
Chaetoceros convolutus																														
Chaetoceros sp.							2	2		4	3	4	5	6	6			2	1	1					3	6	4			1
Corethron hystrix																														
Coscinodiscus sp.	1							1	1	1																				
Cylindrotheca closterium																			1	1	1				1	1			1	
Dactylisolen sp.																														
Detonula pumila														1	1		1	1												
Ditylum brightwellii														1																
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata										1			1	1	1															
Leptocylindrus danicus										1	1			1	1														1	
Leptocylindrus minimus																												1	1	
Licmophora sp.				1	1					1													1						1	
Melosira sp.										1		1																1		
Navicula sp.										1	1			1	1															
Nitzschioid sp.							1	1	1	2		1	2		2					1				1		1	1	1	1	
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																		1												
Rhizosolenia sp. (blunt)											1	2	2		1															
Rhizosolenia stolterfothii																														1
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1		1	1					1	1	1
Stephanopyxis sp.								1	1																					
Taballaria sp.																														
Thalassionema sp.							1	1	1	1									1											
Thalassiosira sp.	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1							1	1	1	1	1	2
Thalassiothrix sp.																														

Table 40 cont'd

date	13-Jul			27-Jul			03-Aug			10-Aug			31-Aug			07-Sep			21-Sep			05-Oct			19-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																											
Achnanthes sp.																											
Amphiproral Tropidoneis																											
Asterionella japonica																				1							
Bacteriastrum sp.																											
Biddulphia sp.																											
Campylosiral Plagiogramma																											
Cerautalina sp.										1	1																
Chaetoceros concavicorne																											
Chaetoceros convolutus																											
Chaetoceros sp.	1	2	1	1	2	1		1		1		1															
Corethron hystrix																			1				1				1
Coscinodiscus sp.																									1		
Cylindrotheca closterium																						1					
Dactyliosolen sp.																											
Detonula pumila																											
Ditylum brightwellii		1																									
Eucampia zoodiacus																											
Grammatophora sp.																											
Hemialus sp.							1	1	1	1																	
Lauderia annulata																											
Leptocylindrus danicus	1		1																								
Leptocylindrus minimus																1											
Licmophora sp.				1						1										1							
Melosira sp.					1						1							1									
Navicula sp.																											
Nitzschioid sp.	1	1	1	1		1			1							1						1					
Pleurosigma/ Gyrosigma sp.											1																
Rhizosolenia setigera																											
Rhizosolenia sp. (pointy)																											
Rhizosolenia sp. (blunt)																											
Rhizosolenia stolterfothii																											
Skeletonema costatum																											
Stephanopyxis sp.			1																								
Tabellaria sp.										1																	
Thalassionema sp.																											
Thalassiosira sp.																1	1	1		1		1	1				
Thalassiothrix sp.								1		1	1	1								1							1
										1	1														1	1	1

Table 41 : Dinoflagellates in Homfray Creek samples.

date	23-Mar			30-Mar			13-Apr			20-Apr			27-Apr			25-May			01-Jun			08-Jun			15-Jun			29-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum									1					1																
Ceratium furca																						1								
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																			1											
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Gonyaulacoid sp.														1			1													
Gymnodinioid sp.													1	1				1	1		1	1	1	2		1	1			
Gymnodinium galatheanum	2	1	1	1			5	5	5	5	4	3	4	4	5	4	6	6												1
Gyrodinium spirale-type																			5	6	4	3	6	6	3	4	6	2	4	3
Heterocapsa triquetra		1		1			1	1	1	2	1	2	1	1	1	1	2	2	1	2	2	1	1	2	1	2	1			
Noctiluca scintillans							1	1	1		1	1				1	1	1	1	1	1	1		1		1		1	1	1
Noctilucoid sp.																				1	1						1			
Oxyrrhis marina																												1	1	1
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.																														
Pyrocystis lunula							1	1	2	2		1	1	3	2	1	1	2	4	3	3	7	7	6	1	2	1	1	1	
Raphidophytes																														
Heterosigma akashiwo																														

Table 41 cont'd

date	13-Jul			27-Jul			03-Aug			10-Aug			31-Aug			07-Sep			21-Sep			05-Oct			19-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																											
Alexandrium sp.																											
Amphidinium sp.																											
Ceratium divericatum																											
Ceratium furca																											
Ceratium fusus					1						1							1									1
Ceratium lineatum																											
Ceratium pentagonum																											
Ceratium sp.																											
Cochlodinium polykrikoides											1																
Cochlodinium sp.																											
Dinophysioid sp.		1									2				1												
Gonyaulacoid sp.																		1									
Gymnodinioid sp.	1	2	2	1	1	1	1	2	2	2	4	2	1	1	1	1		1	1	1	3	2	5	5	2	3	1
Gymnodinium galatheanum																											
Gyrodinium spirale-type							1	1										2				2	1				1
Heterocapsa triquetra																											
Noctiluca scintillans																											
Noctilucoid sp.																											
Oxyrrhis marina																											
Oxytoxum sp.																											
Polykrikos sp.																											
Prorocentrum gracile																											
Prorocentrum micans																											
Prorocentrum minimum																											
Prorocentrum sp.																											
Protoperidinioid sp.	1	1	1		1						1			1	2						1		1				
Pyrocystis lunula																											
Raphidophytes																											
Heterosigma akashiwo																											

Table 42 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Homfray Creek samples.

date	23-Mar			30-Mar			13-Apr			20-Apr			27-Apr			25-May			01-Jun			08-Jun			15-Jun			29-Jun		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum																		1								1			1	1
Dinobryon balticum																														
Ebria tripartita																					1									1
Euglenoid							1	1	1	1	1								1			1	1	1						
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	5	3	4	4	3	4	4	4	3	4	3	4	3	3	4	5	4	3	3	5	3	4	5	5	4	5	2	3	2	2
Zooplankton																														
Appendicularian																				1										
Ciliate	1	1	1	1	1	2	6	7	5	5	4	4	4	3	3	4	5	6	4	5	4	3	5	5	2	3	1	3	3	4
Copepod		1																			1									
Nauplius											1							1				1								
Pluteus																														
Rotifer																						1	1							
Tintinnid		1					2	2	2	1	1	1				1	1	1	2			2				1	1		1	2
Zoea																														
other																														
Dominant Species/Group																														
name	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	ciliates	*Skeletonema sp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Noctiluca scintillans*	*Noctiluca scintillans*	*Protoperidinium spp.*	dinoflagellates	dinoflagellates	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Heterocapsa triquetra*	*Gymnodinioid spp.*	ciliates & tintinnids
count (cells/mL)	2	20	10	20	10	10	400	1500	250	1040	700	200	280	1500	220	57	60	60	100	3	2	50	180	180	80	280	200	40	40	40
% constituent	100	100	101	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	78	90	95	88	90	45	50	75	60	75	70	70	60	85	80	5	7	10	8	5	4	10	5	3	70	60	60	30	35	30
Dinoflagellates	15	2	0	1	0	0	25	10	20	14	17	15	30	10	15	50	50	49	50	54	60	65	70	72	19	29	35	64	47	31
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	1	1	2	2	5	2	3	3	1	1	1	1	1	1	1	1	1	2	1	1	3	3	3	1	1	1	1	10	4
Zooplankton	5	7	5	9	8	50	23	12	17	10	12	14	9	4	4	44	42	40	40	40	35	22	22	22	10	10	4	5	8	35
Biomass	1.5	2.0	2.0	2.0	2.0	1.5	2.5	3.5	2.5	4.0	3.5	3.0	3.5	3.5	3.5	1.5	2.0	2.5	3.0	3.5	3.5	3.0	3.0	3.0	1.5	2.0	2.0	3.0	3.0	2.5

Table 42 cont'd

date	13-Jul			27-Jul			03-Aug			10-Aug			31-Aug			07-Sep			21-Sep			05-Oct			19-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																											
Cryptomonads																											
Dictyocha speculum			1	1	1	1			1										1		1		1	1	1		
Dinobryon balticum																											
Ebria tripartita	1	1	1																								
Euglenoid											1	1															
Phaeocystis pouchetii																											
Radiolarian																											
unid. Nanoflagellates	3	3	4	4	4	4	3	5	3	3	3	4	2	3	3	5	4	4	3	3	4	4	4	4	3	3	4
Zooplankton																											
Appendicularian																											
Ciliate	1	1	1	2	2	3		1	2	3	3	3	2	1	2	4	5	5	3	3	2	5	4	5	2	1	
Copepod																	1		1								1
Nauplius																											
Pluteus																											
Rotifer																											
Tintinnid						2													1	1	1	4	3	2	1	1	1
Zoea																											
other																											
Dominant Species/Group																											
name	*Pseudonitzschia sp*	*Pseudonitzschie sp*	*Pseudonitzschie sp*	diatoms	*Melosira moniliformis*	ciliates	*Grammatophora marina*	*Grammatophora marina*	*Grammatophora marina*	*Thalassiothrix sp.*	*Melosira moniliformes*	euglenoid	ciliates	dinoflagellates	*Protopendinium spp.*	*Tabellaria sp.*	*Tabellaria sp.*	*Tabellaria sp.*	ciliates	ciliates	*Navicula sp.*	ciliates & tintinnids	ciliates & tintinnids	ciliates & tintinnids	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*
count (cells/mL)	280	80	20	10	18	20	13000	300	150	10	18	40	5	10	5	1200	340	480	10	10	15	~40	~20	~20	5	12	4
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	73	77	50	45	21	90	70	49	85	40	25	0	10	0	75	55	30	10	10	65	10	5	0	55	60	65
Dinoflagellates	10	20	15	10	20	4	9	20	15	5	30	10	10	70	69	5	0	35	2	5	15	10	35	30	15	20	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	3	5	20	25	15	1	1	1	1	10	45	1	1	1	10	5	5	5	2	2	20	20	20	5	5	5
Zooplankton	3	4	3	20	10	60	0	9	35	9	20	20	89	19	30	10	40	30	83	83	18	60	40	50	25	15	10
Biomass	2.5	2.0	1.5	1.0	2.0	1.5	3.5	2.5	2.0	1.5	2.0	1.5	1.0	1.5	1.0	2.0	2.0	2.0	1.0	1.0	1.5	2.0	2.0	2.0	1.5	1.5	1.0

Table 43 : Diatoms in Dunsterville site samples.

date	18-May			25-May			01-Jun			07-Jun			15-Jun			23-Jun			29-Jun			06-Jul			13-Jul			20-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica		1		1	1		1					1		1	1		1	1	1	1	1	1	1	1						
Bacteriastrum sp.																														
Biddulphia sp.			1		1																									
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus	1	1	1	1	1	1	1	1	1				1	1	1			1						1						
Chaetoceros sp.	10	10	10	4	4	6	4	5	4	1	1	2	4	3	5	3	6	3	3	3	5	5	4	6					1	
Corethron hystrix																							1	1				1		
Coscinodiscus sp.																														
Cylindrotheca closterium				1	1	1	1	1	1		1	1	1		1	1	1	1	1	1	1								1	1
Dactylisolen sp.																														
Detonula pumila				1	1	1		1	1																					
Ditylum brightwellii	1	1		1	1		1						1		1					1										
Eucampia zoodiacus	1	1	1			1						1	1	1		1	1			1	1	1	1	1	1	1				
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata	1	1	1																											
Leptocylindrus danicus	1	1	1	1	1	1	1	1					1	1	1	1	1	1		1		1		1				1	1	
Leptocylindrus minimus																														
Licmophora sp.													1		1								1					1		
Melosira sp.											1												1							
Navicula sp.	1	1	2	1	1	1	1			1		1		1					1					1						1
Nitzschioid sp.	3	3	2	1	2	1	1	1	1		1	2	1	1	1	1	1	1	1	1	1	1	1	1				1		1
Pleurosigma/ Gyrosigma sp.													1																	
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)															1							1		1						
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii	1			1	1	1		1	1						1	1		1				1	1	1						
Skeletonema costatum	1	1	1	1	1	1	1		1		1		1	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1
Stephanopyxis sp.																														
Striatella/Rhabdonema									1																					
Thalassionema sp.					1	1			1			1	1			1		1			1			1						
Thalassiosira sp.	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1		1		1	1	1

Table 43 cont'd

date	27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			01-Sep			07-Sep			14-Sep			21-Sep			28-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica				1																										
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																												1		
Chaetoceros convolutus																												3	2	2
Chaetoceros sp.										4	6	5																	1	
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium																														
Dactyliosolen sp.																														
Detonula pumila																													1	
Ditylum brightwellii										1		1																		
Eucampia zoodiacus										1																				
Grammatophora sp.															1										1					
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1				1				1																			
Leptocylindrus minimus															1													1		1
Licmophora sp.		1								1	1														1					
Melosira sp.															1											1	1			
Navicula sp.													1																	
Nitzschioid sp.	1																													
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera										1	1																	1		1
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)							1																							1
Rhizosolenia stolterfothii																														
Skeletonema costatum				1		1	1	1	1	1	1	1		1														1		1
Stephanopyxis sp.																														
Striatella/Rhabdonema	1		1																											
Thalassionema sp.										1	1	1																		
Thalassiosira sp.			1		1	1	2	2	2	1	2	2		2				1									1		1	1

Table 43 cont'd

date	05-Oct			13-Oct		
depth	1m	5m	10m	1m	5m	10m
Diatoms						
Achnanthes sp.						
Amphiprora/ Tropidoneis						
Asterionella japonica						
Bacteriastrum sp.						
Biddulphia sp.						
Campylosira/Plagiogramma						
Cerautalina sp.						
Chaetoceros concavicorne						
Chaetoceros convolutus			1	1		
Chaetoceros sp.	1	1		3	3	3
Corethron hystrix						
Coscinodiscus sp.						
Cylindrotheca closterium						
Dactyliosolen sp.						
Detonula pumila						
Ditylum brightwellii	1		1	1	1	
Eucampia zoodiacus					1	
Grammatophora sp.						
Hemialus sp.						
Lauderia annulata						
Leptocylindrus danicus		1			1	
Leptocylindrus minimus						
Licmophora sp.						
Melosira sp.						
Navicula sp.	1		1	1		
Nitzschioid sp.		1				1
Pleurosigma/ Gyrosigma sp.						
Rhizosolenia setigera				1		1
Rhizosolenia sp. (pointy)						
Rhizosolenia sp. (blunt)						
Rhizosolenia stolterfothii						
Skeletonema costatum		1		1	1	1
Stephanopyxis sp.						
Striatella/Rhabdonema						
Thalassionema sp.						
Thalassiosira sp.	2	2		2	1	2

Table 44 : Dinoflagellates in Dunsterville site samples.

date	18-May			25-May			01-Jun			07-Jun			15-Jun			23-Jun			29-Jun			06-Jul			13-Jul			20-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																						1		1						
Amphidinium sp.				1																1	1									
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																									1					
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides												1																		
Cochlodinium sp.					1																									
Dinophysioid sp.	1			2			1	1		1	2	1	2			3		1	1	1		2	1			1	1		1	
Gonyaulacoid sp.					1						1										1									
Gymnodinioid sp.	7	5	5	6	5	1	5	5	3	7	7	6	3	3	4	3	4	1	4	6	4	3	6	5	1	2		3	4	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1		1	1		1	1	1	1	3	2	1				1	1		2	2	1			1						
Heterocapsa triquetra				1	1		1	1		1	1	1											1						1	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.														1																
Prorocentrum gracile																									1			1	1	
Prorocentrum micans																														
Prorocentrum sp.					1																									
Protoperidinioid sp.	6	4	4	6	3	5	6	8	2	4	6	6	4	2		5	2		4	2	1		3		1	1		1	2	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 44 cont'd

date	27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			01-Sep			07-Sep			14-Sep			21-Sep			28-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																			1											
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus										1																				
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																									1					
Cochlodinium sp.																													1	
Dinophysioid sp.		1	2				1				1		1	1		1						1		1	2		1	1		
Gonyaulacoid sp.																														
Gymnodinioid sp.	2	3	2	1	1	2	2	1	1	2	3	2	1	3		2	1		4	2	2	3	1	2	3	3	1	4	5	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type							1					1							1					1				2		
Heterocapsa triquetra																												1	1	1
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxymhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile	1												1	1	1										1			1		
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1	1	1	1			2		1	3	6	3	3	3	1	1						2	1		1		1	4	2	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																									1	1		1	1	1

Table 44 cont'd

date	05-Oct			13-Oct		
depth	1m	5m	10m	1m	5m	10m
Dinoflagellates						
Alexandrium sp.						
Amphidinium sp.						
Ceratium divericatum						
Ceratium furca						
Ceratium fusus						
Ceratium lineatum						
Ceratium pentagonum						
Ceratium sp.						
Cochlodinium polykrikoides	1				1	
Cochlodinium sp.						
Dinophysioid sp.	1			1	1	
Gonyaulacoid sp.						
Gymnodinioid sp.	2	2	2	3	3	2
Gymnodinium galatheanum						
Gyrodinium spirale-type					1	
Heterocapsa triquetra	1	1		1		1
Noctiluca scintillans						
Noctilucoid sp.						
Oxyrrhis marina						
Oxytoxum sp.						
Polykrikos sp.						
Prorocentrum gracile						
Prorocentrum micans						
Prorocentrum sp.						
Protoperidinioid sp.	1	1		1	1	1
Pyrocystis lunula						
Raphidophytes						
Heterosigma akashiwo						

Table 45 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Dunsterville site samples.

date	18-May			25-May			01-Jun			07-Jun			15-Jun			23-Jun			29-Jun			06-Jul			13-Jul			20-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1		1				1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	
Dinobryon balticum																														
Ebria tripartita												1							1	1		1	1							
Euglenoid										1						1	1													
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	2	3	3	3	3	3	3	3	4	3	3	4	4	2	5	3	2	3	3	3	2	2	3	4	3	2	3	4	3
Zooplankton																														
Appendicularian																														
Ciliate	1	1		4	2	1	3	1	1	6	2	2	1			4	2	2	6	5	2	3		1			1	3	3	1
Copepod																								1						
Nauplius																														
Pluteus																														
Rotifer								1								1														
Tintinnid				1	1	1				1		1	1	1		1			2		1			1	1			1		
Zoea																														
other																														
Dominant Species/Group																														
name	*Chaetoceros spp*	*Chaetoceros convolutus*	*Chaetoceros spp*	*Chaetoceros spp*	*Chaetoceros spp*	*Chaetoceros spp*	*dinoflagellates*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Eucampia zoodiacus*	*Dictyocha speculum*	no dominant	*Prorocentrum gracile*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	4200	76	3000	2200	1800	1800	100	100	140	80	60	100	140	180	320	400	300	160	130	60	110	160	620	500	20	6		20	500	80
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	90	100	100	100
Diatoms	90	90	95	80	85	85	45	50	65	10	24	30	80	82	87	30	45	56	20	30	40	80	59	69	44	10	30	30	53	77
Dinoflagellates	8	8	4	15	12	12	50	48	33	50	70	60	17	15	11	30	25	10	30	30	30	14	35	25	50	45	29	40	25	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	2	1	1	1	1	1	4	1	3	1	2	1	30	26	30	20	20	20	3	6	3	5	44	1	10	2	1
Zooplankton	1	1	0	3	2	2	4	1	1	36	5	7	2	1	1	10	4	4	30	20	10	3	0	3	1	1	30	20	20	2
Biomass	4.0	4.0	4.0	3.0	3.0	3.0	3.0	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.0	3.5	3.0	3.0	3.5	3.5	3.5	3.0	3.5	3.5	1.5	1.0	1.0	2.5	3.0	2.0

Table 45 cont'd

date	27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			01-Sep			07-Sep			14-Sep			21-Sep			28-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1	1	1	1	1	1	1					1	1			1	1	1					1	1		1		1
Dinobryon balticum																														
Ebria tripartita	1									1	1	1																		
Euglenoid																			1											
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	2	4	3	3	3	3	3	3	3	3	3	3	2	2	2	2	5	4	2	3	3	3	5	4	3	4	4	4
Zooplankton																														
Appendicularian																														
Ciliate	1	1	3	1	1	1	2	1	2	1	1			3	1	1	1	1	7	7	4	2	1	2	4	1	1	2	3	1
Copepod																														
Nauplius																						1								
Pluteus																														
Rotifer																														
Tintinnid		1	1										1						1			1	1		1	1	1	1	1	
Zoea																														
other																														
Dominant Species/Group																														
name	*Dictyocha speculum*	*Leptocylindrus danicus*	*Dictyocha speculum*	*Dictyocha speculum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Prorocentrum gracile*	dinoflagellates	*Prorocentrum gracile*	dinoflagellates	dinoflagellates	no dominant	ciliates	ciliates	ciliates	dinoflagellates	dinoflagellates	dinoflagellates	tintinnid sp.	tintinnid sp.	tintinnid sp.	*Heterosigma akashiwo*	*Heterocapsa triquetra*	*Thalassiosira* sp.
count (cells/mL)	80	40	10	10	20	10	3000	750	420	2200	3400	1900	20	50	10	10	2	0	180	80	20	50	15	30	30	10	5	55	~20	~10
% constituent	100	100	100	100	100	100	100	100	100	100	101	100	100	100	100	100	100	100	100	100	100	100	100	100	105	100	100	100	100	100
Diatoms	15	45	10	30	80	75	87	92	87	87	77	88	20	5	20	0	0	35	0	0	0	0	0	0	5	20	20	40	42	60
Dinoflagellates	30	30	25	20	12	15	10	5	8	10	20	10	75	70	55	90	40	0	15	5	10	70	80	80	30	30	40	22	40	30
Raphidophytes	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	<1	1	0	30	1	2
Other Flagellates	54	23	30	45	4	5	1	2	2	2	2	2	1	5	5	5	30	35	15	5	5	1	2	1	20	4	1	3	2	5
Zooplankton	1	2	35	5	4	5	2	1	3	1	1	0	4	20	20	5	30	30	70	90	85	29	18	19	50	45	39	5	15	3
Biomass	2.0	1.5	1.0	1.5	1.5	1.5	3.0	2.5	1.5	3.5	4.0	3.5	2.0	1.5	1.5	1.5	1.0	1.0	2.0	1.5	1.5	2.0	1.0	1.5	2.0	1.5	1.0	2.5	2.0	1.5

Table 45 cont'd

date	05-Oct			13-Oct		
depth	1m	5m	10m	1m	5m	10m
Other Flagellates						
Cryptomonads						
Dictyocha speculum					1	1
Dinobryon balticum						
Ebria tripartita						
Euglenoid						
Phaeocystis pouchetii						
Radiolarian						
unid. Nanoflagellates	3	1	2	5	3	3
Zooplankton						
Appendicularian						
Ciliate	2	1		3	1	2
Copepod						
Nauplius						
Pluteus						
Rotifer						
Tintinnid				1	1	1
Zoea						
other						
Dominant Species/Group						
name	*Thalassiosira spp.*	*Thalassiosira spp.*	diatoms	*Chaetoceros spp.*	*Skeletonema costatum*	*Chaetoceros spp.*
count (cells/mL)	~20	~15	~5	100	200	50
% constituent	100	100	100	100	100	100
Diatoms	55	60	65	60	66	70
Dinoflagellates	30	20	20	30	30	23
Raphidophytes	0	0	0	0	0	0
Other Flagellates	10	15	15	2	2	3
Zooplankton	5	5	0	8	2	4
Biomass	1.5	1.5	1.0	3.0	3.5	3.0

Table 46 : Diatoms in Glacial Creek samples.

date	04-May			11-May			18-May			01-Jun			08-Jun			15-Jun			22-Jun			29-Jun			06-Jul			13-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																								1						
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne		1																												
Chaetoceros convolutus		1		1	1	1				1							1													
Chaetoceros sp.					2		4	1	3	4	3	3											3	7		1	3			
Corethron hystrix		1						1		1																				
Coscinodiscus sp.														1																
Cylindrotheca closterium										1	1																			
Dactylisolen sp.																								1						
Detonula pumila							1		1																					
Ditylum brightwellii							1																				1			
Eucampia zoodiacus																								1						
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus														1								1	1	1	1	1	1	1	1	1
Leptocylindrus minimus																														
Licmophora sp.										1						1	1				1	1					1	1	1	
Melosira sp.		1	1										1																	
Navicula sp.															1	1	1	1												
Nitzschioid sp.				1			1			1	1	2	1		1	1	1					1	1	2	1					
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																1														
Rhizosolenia sp. (blunt)										1	1				1	1	1		1	1	1	1								
Rhizosolenia stolterfothii																														
Skeletonema costatum							1	1	1	1	1	1	1		1	1					1	1	1	1		1	1		1	1
Stephanopyxis sp.																														
Thalassionema sp.									1																					
Thalassiosira sp.		1			1	1	1	2	1	1	1	1	1										1	2	1	1	1		1	1

Table 46 cont'd

date	20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep			14-Sep			21-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.														1	1															
Amphiproral Tropidoneis																														
Asterionella japonica			1																											
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.			2										2	2	1	1	1					1		2	2	2		3	2	1
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium												1								1										
Dactylisolen sp.																							1					1		
Detonula pumila																														
Ditylum brightwellii		1		1								1				1			1	1		1	1		1				1	
Eucampia zoodiacus																														
Grammatophora sp.				1																										
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1					1	1		1				1		
Leptocylindrus minimus																														
Licmophora sp.	1	1		1	1	1			1					1					1			1								
Melosira sp.														1	1															
Navicula sp.																														
Nitzschioid sp.	1	1	1	1	1	1							1	1	1			1										1	1	
Pleurosigma/ Gyrosigma sp.																												1		
Rhizosolenia setigera		1		1									1	1								1							1	
Rhizosolenia sp. (pointy)															1					1										
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1		1						1										1	1					1	1	1
Stephanopyxis sp.																														
Thalassionema sp.																												1		
Thalassiosira sp.	1	1	1		1	1	1	1			1		1	1	1			1					1		1	1	1	1	1	

Table 46 cont'd

date	28-Sep			05-Oct			12-Oct			19-Oct			26-Oct			02-Nov			09-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiprora/ Tropidoneis																					
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Campylosira/Plagiogramma																					
Cerautalina sp.																					
Chaetoceros concavicorne								1													
Chaetoceros convolutus			1					1		1	1		1	1							
Chaetoceros sp.	2	1	2		1			1											1		
Corethron hystrix																	1		1	1	
Coscinodiscus sp.																					
Cylindrotheca closterium			1																		
Dactyliosolen sp.																					
Detonula pumila																					
Ditylum brightwellii								1				1									
Eucampia zoodiacus																					
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata	1	1	1																		
Leptocylindrus danicus																					
Leptocylindrus minimus																					
Licmophora sp.									1												
Melosira sp.							1														
Navicula sp.	1	2	2			1															
Nitzschioid sp.			1			1	1							1							
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera										1		1		1							
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)		1	1								1										
Rhizosolenia stolterfothii																					
Skeletonema costatum	1	1	1							1		1									
Stephanopyxis sp.																					
Thalassionema sp.	1	1																			
Thalassiosira sp.				1	1						1	1			1						

Table 47 : Dinoflagellates in Glacial Creek samples.

date	04-May			11-May			18-May			01-Jun			08-Jun			15-Jun			22-Jun			29-Jun			06-Jul			13-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.					1																									
Amphidinium sp.															1							1			1		1			
Ceratium divericatum																				1										
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																				1						1	1		1	
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Gonyaulacoid sp.															1				1	1	1		1			1			1	1
Gonyaulax grindleyi																														
Gymnodinioid sp.	5	3	2		1	1	3	1	2	2	4	4	4	4	1	4	4	4	1	1	2	2	5	6	1	2	2	1	1	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2	1		1	1	1		2	1			1							1		1	1				1				
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxymhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prurocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	1		1		1	1			1	1	1					2	2					1			1				
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 47 cont'd

date	20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep			14-Sep			21-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																							1					1	1	1
Amphidinium sp.																												1		
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus		1	1	1	1	1		1	1			1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.		1		1	1			1	1										1						1	1	1			
Gonyaulacoid sp.																	2	1				1	1					2	1	1
Gonyaulax grindleyi																									1	1	1			
Gymnodinioid sp.	2	1	1	3	2	2	2	1	2	2	2	4	2	3	2	3	5	5	2	3	3		5	4	2	1	1	5	6	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1						1					1					1					1	1	1				2	1
Heterocapsa triquetra																	1													
Noctiluca scintillans														1		1	1			1					1					
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides				1																										
Polykrikos sp.																														
Prorocentrum gracile							1												1											
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	3	1	2	2	2	2	2	2	1	2	2	2			4	1	3	1		2		2	2	2	1	2		3	1	6
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo				1																										

Table 47 cont'd

date	28-Sep			05-Oct			12-Oct			19-Oct			26-Oct			02-Nov			09-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus	1	1	1	1	1	1	1	1	1												
Ceratium lineatum																					
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium polykrikoides																					
Cochlodinium sp.																					
Dinophysioid sp.	1		1	1	1					2	1										
Gonyaulacoid sp.	1	1	1																		
Gonyaulax grindleyi																					
Gymnodinioid sp.	5	5	5	4	3	3	2	2	3	1		1				1			1	1	
Gymnodinium galatheanum																					
Gyrodinium spirale-type	1		1				1	1	1			1			1						1
Heterocapsa triquetra																					
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxyphysis oxytoxoides																					
Polykrikos sp.																					
Prorocentrum gracile																					
Prorocentrum micans											1										
Prorocentrum minimum																					
Prorocentrum sp.																					
Protoperidinioid sp.	2	3	3	2	2	1				1											
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo																					

Table 48 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Glacial Creek samples.

date	04-May			11-May			18-May			01-Jun			08-Jun			15-Jun			22-Jun			29-Jun			06-Jul			13-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum										1							1		1	1	1		1	1		1	1	1	1	1
Dinobryon balticum													1				1	1	1	1	1									
Ebria tripartita																1	1													
Euglenoid	1	1	1								1																			
Phaeocystis pouchetii																							1							
Radiolarian																														
unid. Nanoflagellates	3	4	3	4	6	4	5	5	4	5	5	5	4	4	3	3	3	4	3	4	3	3	4	5	2	3	5	3	3	3
Zooplankton																														
Amoeba																							1			1				
Appendicularian																														
Ciliate	5	4	2	2	2	2	1	2	1	5	3	4	4	5	5	2	5	4	4	4	5	3	4	4	2	2	3	1	1	1
Copepod															1															
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid				1	1		1	1	1		2											1					1			
Zoea																														
other																														
Dominant Species/Group																														
name	*Gymnodinium spp.*	*Chaetoceros concavicorne*	*Gymnodinium spp.*	*Gyrodinium spirale*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	ciliates	ciliates	ciliates	*Rhizosolenia fragilissima*	*Rhizosolenia fragilissima*	dinoflagellates	*Rhizosolenia sp.*	*Dictyocha speculum*	*Dictyocha speculum*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Skeletonema costatum*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*
count (cells/mL)	260	12	28	4	14	6	400	450	200	100	100	50	30	40	10	10	10	20	50	30	29	300	200	7000	700	200	200	560	200	140
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	110	100	100	100	100	100	100	100	100	100
Diatoms	0	45	8	40	60	40	68	65	65	85	83	80	38	15	25	40	35	15	30	10	12	59	70	90	87	83	78	85	78	75
Dinoflagellates	50	20	48	44	30	40	15	15	20	2	5	8	20	38	23	30	25	45	26	25	28	10	15	5	8	10	15	10	15	15
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	1	4	1	1	1	2	2	2	5	4	4	2	2	2	5	15	10	4	30	30	1	5	1	1	2	1	1	4	5
Zooplankton	48	34	40	15	9	19	15	18	13	8	8	8	40	45	50	25	25	30	40	35	40	30	10	4	4	5	6	4	3	5
Biomass	3.5	2.5	1.5	1.5	2.0	1.5	3.0	3.0	2.5	2.5	3.0	2.5	1.5	1.5	1.5	2.0	2.0	1.5	1.5	1.0	1.0	2.5	3.0	4.0	3.0	2.5	2.5	3.5	3.0	3.0

Table 48 cont'd

date	20-Jul			27-Jul			03-Aug			10-Aug			17-Aug			24-Aug			31-Aug			07-Sep			14-Sep			21-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1	1	1	1			1			1		1	1			1	1		1	1	1	1	1			1	1	
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	5	4	4	3	3	3	3	3	4	3	2	4	4	3	3	4	3	2	5	4	4	3	4	5	4	5	5
Zooplankton																														
Amoeba																			1											
Appendicularian																														
Ciliate	3	2	4	2	1	1	2	1	1	4	2	5	2		2	4	6	2	3	2	1	3	5	5	2	1	1	7	4	5
Copepod																1					1									1
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid																			1											
Zoea																														
other																1														
Dominant Species/Group																														
name	*Leptocylindrus danicus*	*Skeletoneme costatum*	*Leptocylindrus danicus*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Protopendinioid sp.*	*Protopendinioid sp.*	*Leptocylindrus danicus*	ciliates	*Leptocylindrus danicus*	*Ceratium fusus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Ceratium fusus*	*Leptocylindrus danicus*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Chaetoceros decipiens*	*Ceratium fusus*	dinoflagellates	*Gonyaulax grindleyi*	*Gonyaulax grindleyi*	*Ceratium fusus*	dinoflagellates	*Ceratium fusus*	dinoflagellates
count (cells/mL)	70	260	50	125	400	200	5	20	10	30	20	1	40	70	40	130	65	7	15	30	20	20	12	70	30	10	5	90	12	70
% constituent	100	100	100	100	100	100	101	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	49	75	65	10	5	15	30	10	35	10	49	23	90	55	30	45	1	5	5	15	2	40	10	10	30	38	10	30	30	25
Dinoflagellates	30	20	21	40	30	25	40	79	42	20	25	40	5	40	53	20	72	65	70	75	95	25	77	45	66	60	78	45	50	50
Raphidophytes	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	3	4	35	60	55	1	1	20	1	1	2	1	5	15	5	2	10	1	1	1	10	5	5	2	1	2	5	5	2
Zooplankton	20	2	10	10	5	5	30	10	3	69	25	35	4	0	2	30	25	20	24	9	2	25	8	40	2	1	10	20	15	23
Biomass	2.5	3.0	2.5	3.0	3.5	3.0	1.0	1.5	1.5	1.5	1.5	2.0	2.0	2.5	3.0	2.5	3.5	2.5	2.0	3.0	2.0	1.5	2.5	2.5	3.5	3.0	1.5	3.0	3.0	2.5

Table 48 cont'd

date	28-Sep			05-Oct			12-Oct			19-Oct			26-Oct			02-Nov			09-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum	1	1	1	1	1	1	1	1													
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid				1	1	1															
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	4	5	5	4	3	4	4	3	4	4	3	4	4	3	3	3	3	5	4	3	4
Zooplankton																					
Amoeba		1																			
Appendicularian																					
Ciliate	8	8	6	3	4	2	1	2	4	1	1		2	2	2	3	3	1	1	1	3
Copepod																					
Nauplius													1								
Pluteus																					
Rotifer																					
Tintinnid		1																			
Zoea																					
other																					
Dominant Species/Group																					
name	ciliates	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	*Ceratium fusus*	ciliates	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Gyrodinium sp.*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	ciliates	ciliates	ciliates	ciliates	*Corethron hystrix*	*Corethron hystrix*	ciliates
count (cells/mL)	~100	~5	~4	90	20	10	10	4	25	23	5	4	3	23	8	10	6	2	1	2	5
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	30	35	32	5	5	10	20	20	5	80	65	60	30	80	15	0	20	0	45	50	0
Dinoflagellates	25	30	45	65	55	75	65	40	40	15	20	35	0	0	15	15	0	0	35	20	15
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	3	20	10	10	10	10	5	2	5	5	10	5	20	15	10	60	10	15	30
Zooplankton	40	30	20	10	30	5	5	30	50	3	10	0	60	15	50	70	70	40	10	15	55
Biomass	3.5	3.0	2.5	4.0	3.0	2.5	2.0	1.5	1.5	1.5	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Table 49 : Diatoms in Pretty Girl Cove samples.

date	14-May			20-May			28-May			04-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul			23-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.	1																													
Amphiprora/ Tropidoneis																														
Asterionella japonica																1	1													
Bacteriastrum sp.																														
Biddulphia sp.	1		1																											
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus		7									2						3	5						2						
Chaetoceros sp.	4	4	6	1	1	1				2	2	2				4	4	1	1	1	1		1					2	3	2
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium												1					1													
Dactyliosolen sp.																														
Ditylum brightwellii			1																1	1	1				1			1	1	1
Eucampia zoodiacus																1	1	1	1	1	1		1	1	1	1	1	1	1	1
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1	1																			1	1	1	1	1	1	1	1	1
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.																					1									
Navicula sp.	1		1															1												1
Nitzschioid sp.	1	1	3			1				1	1	1			1	2	1	1	1	1	1								1	1
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)															1	1	1						1	1	1	1	1	1	1	1
Rhizosolenia sp. (blunt)		1	1																		1									
Rhizosolenia stolterfothii											1						1		1									1	1	1
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1	1	1	1	1								1
Stephanopyxis sp.																														
Thalassionema sp.			1		1													1											1	
Thalassiosira sp.	1	2	1	1		1			1		1	1		1		1	1	1	1	1	1							1		1

Table 49 cont'd

date	30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep			01-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica	1					1																								
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	3	2	2	3	3	2					1																			
Corethron hystrix																							1							
Coscinodiscus sp.																														
Cylindrotheca closterium		1															1													
Dactyliosolen sp.					1	1									1														1	
Ditylum brightwellii	1	1	1	1	1	1	1	1	1		1	1																		
Eucampia zoodiacus	1	1	1	1	1	1																								
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																						1								
Leptocylindrus danicus	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Leptocylindrus minimus							1	1	1	1	1	1																		
Licmophora sp.																														
Melosira sp.											1																			
Navicula sp.																													1	
Nitzschioid sp.	1	1	1	1	1	1				1																				
Pleurosigma/ Gyrosigma sp.											1																			
Rhizosolenia setigera	2	7	4				2	4		1	3	1							2			3								
Rhizosolenia sp. (pointy)		1	1					1		1																				
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii			1					1			1					1														
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1				1									1							
Stephanopyxis sp.													1																	
Thalassionema sp.					1												2					1						1	1	
Thalassiosira sp.	1	1	1		1	1	1	2	2	1	1																			

Table 49 cont'd

date	08-Oct			15-Oct			22-Oct			29-Oct			05-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiproral Tropidoneis																					
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Campylosiral/Plagiogramma																					
Cerautalina sp.																					
Chaetoceros concavicorne																					
Chaetoceros convolutus																					
Chaetoceros sp.																					
Corethron hystrix																					
Coscinodiscus sp.																					
Cylindrotheca closterium																					
Dactyliosolen sp.																					
Dityfum brightwellii																					
Eucampia zoodiacus																					
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus				1																	
Leptocylindrus minimus				1																	
Licmophora sp.																					1
Melosira sp.																					1
Navicula sp.																					
Nitzschioid sp.				1																	
Pleurosigma/ Gyrosigma sp.												2									
Rhizosolenia setigera																					
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)																					
Rhizosolenia stolterfothii																					
Skeletonema costatum																					
Stephanopyxis sp.																					
Thalassionema sp.																				1	
Thalassiosira sp.	1		1																		

Table 50 : Dinoflagellates in Pretty Girl Cove samples.

date	14-May			20-May			28-May			04-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul			23-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																							1							
Amphidinium sp.																													1	
Ceratium divericatum																														
Ceratium furca																													1	1
Ceratium fusus																														
Ceratium lineatum					1																									
Ceratium pentagonum																														
Ceratium sp.																													6	
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.					1						1					1				2	1	1	1			1	1	1	1	
Diplopsalis sp.																														
Gonyaulacoid sp.																								1						
Gymnodinioid sp.	7	6	6				2	1	1	2	4	2	1	1	1	2	2	1	2	2	1	4	3	2	6	7	4	4	5	4
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2	2	1	2	1	1	3	2	2	2	1	1	1	1		2	1			2			3	2		2		1	1	1
Heterocapsa triquetra		1	1			1	1	1	1	1			1	1			1	1	1	1	1	1	1	1		1	1		1	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																1				1					1					
Polykrikos sp.																1			1	1	1	1	1	1	1	1	1	1	1	
Prorocentrum gracile																			1											
Prorocentrum micans																	1		1			1								
Prorocentrum sp.	1															1	4	1	2	2	4	4	1	2	2	3	2	3	4	2
Protoperidinioid sp.	2	6	1	1		2	2	2	1	4	3	3	2	2																
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 50 cont'd

date	30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep			01-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																									1	1	1	1		
Alexandrium sp.							1						1			1			1								1	1		
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																					1		1					1	1	1
Ceratium fusus					1			1	1		1	1		1	1				1			1			1			1		
Ceratium lineatum				1							1																			
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides								35	5	125	20	7	110	12	2	4	90	42	1030	60	190	525	250	250	27	45	55			
Cochlodinium sp.																						1	1		1			2		1
Dinophysioid sp.	1		1	2	1	1	1	1	1	2			1												1		1			
Diplopsalis sp.										1	1	1																1	1	1
Gonyaulacoid sp.	5	3	2	4	5	4	4	5	4	5	2	2	3	3	2	4	3		5	6	5	4	2	4	7	6	7	7	2	4
Gymnodinioid sp.																														
Gymnodinium galatheanum		1			2	1		2	1		1		3	1		3			3	2		1	1	1	2	2	2	2	2	1
Gyrodinium spirale-type	1	1	1	1	1	1	1	1	1			1		1	1	1	1		1			1	1		1		1		1	1
Heterocapsa triquetra						1		1	1																					
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina								1		1	1		1							1					1	1	1	1		
Oxyphysis oxytoxoides																														
Polykrikos sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1		
Prorocentrum gracile				1						1			1			1			1					1	1	1	1	1	1
Prorocentrum micans																														
Prorocentrum sp.	2	1	2	4	3	2	3	3	1	6	2		3			3	2	1	4	2	2	3	1	1	6	2	2	4	4	1
Protoperidinioid sp.								1	1			1									1									
Pyrocystis lunula																														
Raphidophytes							9		2	25	10					24			270	35	50						1	1		
Heterosigma akashiwo																														

Table 50 cont'd

date	08-Oct			15-Oct			22-Oct			29-Oct			05-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.				1	1																
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus		1	1		1	1			1			1					1				
Ceratium lineatum				1			1		1				1								
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium polykrikoides							12		1												
Cochlodinium sp.																					
Dinophysioid sp.	1	1			1	1	1	1		1				1				1			
Diplopsalis sp.																					
Gonyaulacoid sp.	1	1	1	1	1	1								1							
Gymnodinioid sp.	3	1	1	6	8	5	2	1	2	4	2	3		1	1	1	1	1		1	1
Gymnodinium galatheanum																					
Gyrodinium spirale-type				3	3	3				1	2	1									1
Heterocapsa triquetra											1										
Noctiluca scintillans					1									1							
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxyphysis oxytoxoides																					
Polykrikos sp.																					
Prorocentrum gracile																					
Prorocentrum micans	1	1	1	1	1	1	1			1	1		1					1			
Prorocentrum sp.																					
Protoperidinioid sp.	1	1	1	4	3	1				1											
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo				2	2																

Table 51 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Pretty Girl Cove samples.

date	14-May			20-May			28-May			04-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul			23-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum											1		1						1		1									
Dinobryon balticum																														
Ebria tripartita		1																												
Euglenoid																						1				1				
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	2	4	3	3	4	4	3	4	2	4	2	4	3	3	2	3	4	4	3	4	4	2	4	4	3	4	3	3	3
Zooplankton																														
Appendicularian																														
Ciliate	7	5	5	2	2	1	5	3	5	7	7	5	4	1	2	4	5	1	3	2	1	2	2	1	4	4	1	3	2	3
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid	1		2	1		1		1		1		1				1			1	1		1						1	1	
Zoea																				1										
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	ciliates	ciliates	*Skeletonema costatum*	ciliates	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	ciliates	dinoflagellates	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Prorocentrum gracile*	*Leptocylindrus danicus*	*Eucampia zoodiacus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*
count (cells/mL)	1700	1000	1600	40	20	200	22	30	100	10000	1320	1000	20	10	80	4400	1200	660	240	120	200	140	200	360	500	2700	840	700	2100	700
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	40	50	70	35	30	35	18	10	30	90	87	89	0	5	80	70	62	89	70	65	72	30	46	58	59	60	67	64	72	76
Dinoflagellates	18	23	18	30	20	30	40	50	35	4	7	5	35	45	5	18	25	8	25	30	26	65	50	40	35	35	30	30	25	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	2	1	1	1	2	2	5	1	1	1	20	15	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Zooplankton	40	25	10	34	49	34	40	38	30	5	5	5	45	35	10	11	12	2	4	4	1	4	3	1	5	4	2	5	2	3
Biomass	3.0	3.0	3.0	2.0	2.0	2.5	1.5	1.5	2.0	4.5	3.5	3.5	1.5	1.5	2.5	3.5	3.0	3.0	3.5	3.5	3.5	3.0	3.0	3.5	3.5	4.0	3.0	3.0	4.0	3.0

Table 51 cont'd

date	30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep			01-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum					1			3								2	1			1	1		1		2			1	1	1
Dinobryon balticum																														
Ebria tripartita	1						1		1	1			1			1														
Euglenoid		1	1																											
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	3	3	3	3	3	4	4	3	5	4	3	3	3	5	3	5	5	2	5	3	3	7	4	5	4	5	2
Zooplankton																														
Appendicularian				1																										
Ciliate	2	1	3	3	2	2	1	3	2	6	5	3	2	2	2	10	5	3	8	5	5	3	1	4	7	5	5	7	6	2
Copepod				1																		1								
Nauplius				1																								1		
Pluteus																														
Rotifer																														
Tintinnid				1			1	1	1	2	1					2			1	3		2	1		3		3	4		
Zoea																														
other	1										1																			
Dominant Species/Group																														
name	*Prorocentrum gracile*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Prorocentrum gracile*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Cochlodinium polykrikoides*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Leptocylindrus minimus*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Leptocylindrus minimus*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Prorocentrum micans*	*Gonyaulax digitale*	*Gonyaulax digitale*
count (cells/mL)	33	300	460	950	320	200	12000	8000	2000	125	9000	3000	11000	2100	900	19000	3000	42	1030	4800	190	525	250	250	3100	45	55	70	16	10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	35	63	67	20	46	50	52	45	45	32	45	54	47	38	50	60	40	24	10	50	15	10	7	4	20	5	5	1	5	0
Dinoflagellates	62	35	30	69	50	46	40	43	50	50	38	35	50	55	45	20	48	65	69	35	70	85	90	90	55	70	70	66	72	90
Raphidophytes	0	0	0	0	0	0	3	0	0	2	1	0	0	0	0	5	0	0	10	5	5	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	2	2	1	1	1	1	1	2	2	2	2	1	1	5	1	1	1	1	5	3	3	3	3	2
Zooplankton	2	1	2	10	3	3	3	10	4	15	15	10	2	5	3	13	10	10	10	5	9	4	2	5	20	22	22	30	20	8
Biomass	3.5	3.5	3.5	4.0	4.0	3.5	3.0	3.5	3.0	3.5	3.5	2.5	4.0	2.5	2.0	4.0	4.0	3.0	4.0	3.5	3.5	4.0	3.5	3.5	3.5	3.0	3.0	3.5	2.5	2.0

Table 51 cont'd

date	08-Oct			15-Oct			22-Oct			29-Oct			05-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum	**10**	**2**	**1**	**1**	**3**	**3**							**5**	**2**							
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid	1					1										1					
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	3	2	3	3	2	3	5	5	4	4	2	4	4	4	3	5	4	5	3	4	4
Zooplankton																					
Appendicularian																					
Ciliate	3	3	1	5	7	3	2	1	1	5	3	3	3	2	2	2	3	5	1	1	2
Copepod																					
Nauplius																					
Pluteus																					
Rotifer					1																
Tintinnid				2																	
Zoea																					
other																					
Dominant Species/Group																					
name	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Prorocentrum micans*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Cochlodinium polykrikoides*	dinoflagellates	dinoflagellates	ciliates	dinoflagellates	*Ceratium fusus*	*Prorocentrum micans*	dinoflagellates	ciliates	ciliates	*Ceratium fusus*	*Prorocentrum micans*	ciliates	*Gymnodinium* sp	*Gymnodinium* sp
count (cells/mL)	20	10	20	60	45	10	12	3	6	30	10	2	15	6	5	3	2	4	2	1	3
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	2	0	2	15	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	15	35
Dinoflagellates	80	90	94	65	75	75	90	80	90	40	60	55	55	60	30	15	60	35	0	15	45
Raphidophytes	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	4	2	1	1	5	2	10	5	10	5	10	10	15	10	35	10	5	70	55	5
Zooplankton	8	6	2	18	23	20	8	10	5	50	35	25	35	25	60	50	30	60	30	15	15
Biomass	2.5	2.0	2.0	3.0	3.0	2.0	2.0	1.0	1.5	2.0	1.5	1.5	2.0	1.5	1.0	1.0	1.0	1.5	1.0	1.0	1.5

Table 52 : Diatoms in Bacchante Bay samples.

date	14-May			20-May			28-May			04-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul			23-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.	1	1																												
Amphiproral Tropidoneis																														
Asterionella japonica																									1			1	1	1
Bacteriastrum sp.				1	1					1		1		1			1								1					
Biddulphia sp.																	1				2		1			1				
Cerautalina sp.																	1													
Chaetoceros concavicorne																													1	
Chaetoceros convolutus											1						1				1				1	1	1		1	1
Chaetoceros sp.		1		3	2	3	3	2	2	3	8	3	8	3	1	5	7	5	4	4	6	4	4	2	8	7	6	4	8	5
Corethron hystrix																														
Coscinodiscus sp.																									1					
Cylindrotheca closterium										1		1									1		1		1				1	1
Dactyliosolen sp.																									1	1				
Detonula pumila																	1	1												
Ditylum brightwellii							1						1			1	1		1	1	1	1		1	1	1	1	1	1	1
Eucampia zoodiacus														1			1	1	1	1	1	1		1	1	1	1	1	1	1
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																			1											
Leptocylindrus danicus												1		1			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Leptocylindrus minimus										1						1									1	1	1	1	1	1
Licmophora sp.				1						1																			1	
Melosira sp.																														
Navicula sp.											1	1													1	1	1			
Nitzschioid sp.	1							1	1	1	1	1	2	1	1	1	1	1	1	1	2			1	1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.																		1								1				
Rhizosolenia setigera																									1	1	1	1	1	1
Rhizosolenia sp. (pointy)																	1	1			1			1		1	1	1	2	1
Rhizosolenia sp. (blunt)			1	1		1								1	1		1		1	1	2							1		1
Rhizosolenia stolterfothii											1			1			1	1	1	1	1	1	1	1	1	1	1	1	1	
Skeletonema costatum	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Thalassionema sp.							1		1		1	1	1	1					1			1					1		1	
Thalassiosira sp.	1	1		1	1	1	1	1	1	1	1	2	1	2	2	1	2	1	2	2	2	1	1		1	1	2	2	1	1

Table 52 cont'd

date	30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep			01-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica								1																						
Bacteriastrum sp.																														
Biddulphia sp.											1																			
Cerataulina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	4	4	5	3	3	2	1	2	2		1	2																		
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium					1				1																					
Dactyliosolen sp.				1	1	1																								
Detonula pumila																														
Ditylum brightwellii	1	1	1	1	1	1			1	1																				
Eucampia zoodiacus	1	1	1	1	1	1																								
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1	1	1	1	1	1	1		1						1											
Leptocylindrus minimus				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Licmophora sp.																														
Melosira sp.																													1	
Navicula sp.																1														
Nitzschioid sp.	1	1	1	1	1	1																		1		1	1			
Pleurosigma/ Gyrosigma sp.											1																			
Rhizosolenia setigera	1	1	1		1	1	1	1	1		1		1																	
Rhizosolenia sp. (pointy)	1	1	1						1																					
Rhizosolenia sp. (blunt)	1	1																												
Rhizosolenia stolterfothii	1	1		1	1			1	1				1																	
Skeletonema costatum	1	1	1	1	1	1	1	1	1		1	1				1	1	1			1		1		1				1	
Stephanopyxis sp.																														
Thalassionema sp.						1							1																	
Thalassiosira sp.	1	1	1	1	1	1	1	1	1	1	1		1	1			1	1		1			1	1	1					

Table 52 cont'd

date	08-Oct			15-Oct			22-Oct			29-Oct			05-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.				1																	
Amphiprora/ Tropidoneis																					
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Cerautalina sp.																					
Chaetoceros concavicorne																					
Chaetoceros convolutus																					
Chaetoceros sp.																					
Corethron hystrix																					
Coscinodiscus sp.														1							
Cylindrotheca closterium																					
Dactyliosolen sp.																					
Detonula pumila																					
Ditylum brightwellii																					
Eucampia zoodiacus																					
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus																					
Leptocylindrus minimus				1	1																
Licmophora sp.																					
Melosira sp.															1						
Navicula sp.																					
Nitzschioid sp.																					
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera											1										
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)																					
Rhizosolenia stolterfothii																					
Skeletonema costatum	1	1	1							1											
Stephanopyxis sp.																					
Thalassionema sp.																					
Thalassiosira sp.	1	1								1			1	1							

Table 53 : Dinoflagellates in Bacchante Bay samples.

date	14-May			20-May			28-May			04-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul			23-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																													1	
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																														
Dinophysioid sp.				1											1		1					1			1	1		1		1
Diplopsalis lenticula																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	3	3	3				5	3	3	2		2	1	4	3	1	2	3	3	2	1	6	4	4	8	6	3	8	6	4
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2	1		2	1	2	2	1	1			1	1	1			1			1	1	1	1	3	1	1	1		2	1
Heterocapsa triquetra	1	1	1	1									1	1			1	1	1	1	1	1	1	1			1	1	1	1
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																									1		1			
Prorocentrum gracile		1					1			1			1				1	1	1	1	1	1	1	1	1	1	1	1	1	1
Prorocentrum micans														1					1			1							1	
Prorocentrum sp.																			1	1										
Protoperidinioid sp.	2	5	1	3	2	2	4	3	2	5	2	3	3		2	2	4	4	1	1	2	2	4	3	3	4	2	1	4	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 53 cont'd

date	30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep			01-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.													1						1	1	1			1						
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum				1				1																						
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																			1											
Cochlodinium polykrikoides							1						1					1	1			1	1		1	1			1	1
Dinophysioid sp.	1			1	1	1	1	1	1	2	1								1		1							1		
Diplopsalis lenticula				1	1	1						1	1		1								1	1						
Gonyaulacoid sp.													1						2					1				1		
Gymnodinioid sp.	3	2	2	4	5	3	4	2	3	7	3	5	4	1	2	4	3	2	8	5	2	3	2	4	3	2	1	4	4	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type			1	1	1			1		1	1	1				1	2		1	2	2	1	2	1	1			2	1	
Heterocapsa triquetra	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides				1	1			1		1	1		1																1	
Polykrikos sp.																			1			1								
Prorocentrum gracile	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Prorocentrum micans	1			1			1	1	1	1		1	1	1	1			1												
Prorocentrum sp.																														
Protoperidinioid sp.	1	4	1	6	4	4		4	2	5	2		7	6	2	4	1		4	5	4	1	2	1	2			5	2	3
Pyrocystis lunula							1	1	1																					
Raphidophytes																														
Heterosigma akashiwo							1	1	1	1			1	1	1	1	1	1		1	1				1					

Table 53 cont'd

date	08-Oct			15-Oct			22-Oct			29-Oct			05-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus																					
Ceratium lineatum																					
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium sp.																					
Cochlodinium polykrikoides	1																				
Dinophysioid sp.																					
Diplopsalis lenticula																					
Gonyaulacoid sp.													1		1						
Gymnodinioid sp.	3	2	1	5	4	3	2			1	1	1					1				
Gymnodinium galatheanum																					
Gyrodinium spirale-type																					
Heterocapsa triquetra	1	1	1	1																	
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxyphysis oxytoxoides																					
Polykrikos sp.																					
Prorocentrum gracile	1												1	1							
Prorocentrum micans							1	1	1	1			1	1							
Prorocentrum sp.																					
Protoperidinioid sp.				1										1	1						
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo																					

Table 54 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Bacchante Bay samples.

date	14-May			20-May			28-May			04-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul			23-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads														1					1	1		1							1	
Dictyocha speculum		1				1	1	1	1	1	1	1													1					
Dinobryon balticum													1												1					
Ebria tripartita		1																		1										
Euglenoid	1	1								1	1																			
Phaeocystis pouchetii																														
Radiolarian																	1													
unid. Nanoflagellates	2	3	3	3	3	4	5	5	3	4	2	2	4	2	3	4	4	2	4	3	4	3	4	3	4	4	3	4	4	5
Zooplankton																			1											
Appendicularian																														
Ciliate	4	5	4	2	1	1	4	3	2	6	2	1	2	2	1		3		1	1	2	3	2	5	4	2	1	2	2	1
Copepod																														
Nauplius																														
Pluteus																														
Rotifer							2																							
Tintinnid							2		1		1		1			1			2		1	1			1			1	1	2
Zoea																														
other																														
Dominant Species/Group																														
name	*Heterocapsa triquc.ra*	ciliates	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira spp.*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Chaetoceros spp*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*
count (cells/mL)	40	100	40	7000	9000	5000	500	800	300	6000	17000	8000	8000	1000	200	10000	1300	220	1600	2100	200	340	120	200	3100	500	90	300	800	180
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	30	10	5	60	75	70	45	60	45	88	95	95	90	80	77	95	90	90	62	71	85	54	52	49	65	70	75	67	70	75
Dinoflagellates	55	35	40	30	20	20	35	25	35	5	2	2	6	15	20	3	5	9	30	25	12	40	45	40	20	20	20	30	27	22
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	10	1	1	1	8	5	8	2	1	1	1	1	1	1	1	1	4	2	1	2	1	1	2	2	1	1	1	1
Zooplankton	10	50	45	9	4	9	12	10	12	5	2	2	3	4	2	1	4	0	4	2	2	4	2	10	13	8	4	2	2	2
Biomass	2.0	2.5	1.5	3.0	3.0	3.0	3.0	2.0	2.0	4.0	4.5	4.5	4.0	3.0	2.0	4.0	4.5	4.0	3.5	3.5	4.0	3.5	3.0	3.5	3.5	3.5	3.0	3.5	4.0	2.5

Table 54 cont'd

date	30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep			01-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum								1		1				1	1						1									
Dinobryon balticum																														
Ebria tripartita				1	1	1	1	1	1	1																				
Euglenoid										1			1			1						1							1	
Phaeocystis pouchetii																														
Radiolanan																														
unid. Nanoflagellates	4	5	4	3	4	2	3	4	4	3	4	3	6	3	3	3	3	5	5	4	4	4	6	6	3	2	5	5	4	2
Zooplankton																														
Appendicularian																														
Ciliate	1	1		2	1	1	1	2		4	2	1	2	3	3	7	6	4	6	6	4	5	6	4	5	3	3	6	3	3
Copepod			1				1																							
Nauplius								1																	1					1
Pluteus																														
Rotifer																			1											
Tintinnid				1			1	1	1	1			2		1				3	1	1		2	1	1	1	1	1	1	1
Zoea																														
other																														
Dominant Species/Group																														
name	*Heterocapsa triquetra*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Leptocylindrus danicus*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Leptocylindrus minimus*	tintinnid sp.	tintinnid sp.	dinoflagellates	*Skeletonema costatum*	*Cochlodinium polykrikoides*
count (cells/mL)	250	200	60	1200	460	230	5000	350	1500	920	20	70	1200	120	40	290	45	50	900	130	70	340	90	85	450	20	10	80	20	5
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101	101	100	100	100	100	100	100	100	100	100
Diatoms	53	63	68	40	47	50	60	50	50	15	10	20	20	8	5	10	20	20	3	5	10	5	10	10	34	10	5	5	35	0
Dinoflagellates	45	35	30	55	50	48	35	40	42	75	88	78	74	82	74	30	38	30	85	80	70	85	60	60	35	39	30	50	30	70
Raphidophytes	0	0	0	0	0	0	1	5	4	4	0	0	2	5	10	35	20	30	0	1	1	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	1	2	2	1	1	1	2	1	1	5	2	5	2	2	2	2	3	5	1	1	2	15	10	2
Zooplankton	1	1	1	4	2	1	3	3	2	5	1	1	2	4	10	20	20	15	10	13	18	8	27	25	30	50	63	30	25	28
Biomass	3.5	3.5	3.5	4.5	4.0	3.5	3.0	3.5	3.0	4.0	2.0	2.0	4.0	3.0	2.5	3.5	2.0	2.0	3.5	3.0	3.0	3.5	3.0	3.0	3.0	2.0	1.5	3.0	1.5	1.5

Table 54 cont'd

date	08-Oct			15-Oct			22-Oct			29-Oct			05-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum					1					1					1						
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid	1			1																	
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	3	3	3	4	4	5	4	3	4	3	3	6	5	3	4	5	4	5	4	3	4
Zooplankton																					
Appendicularian																					
Ciliate	5	2	1	7	1	4	1			5	2	3	3	1	1	1	1	1	2	2	1
Copepod			1																		
Nauplius																					
Pluteus																					
Rotifer																					
Tintinnid	1			1			1														
Zoea																					
other																					
Dominant Species/Group																					
name	*Cochlodinium polykrikoides*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	ciliates & tintinnids	dinoflagellates	ciliates	*Prorocentrum micans*	*Prorocentrum micans*	*Prorocentrum micans*	ciliates	ciliates	ciliates	*Gonyaulax digitale*	*Prorocentrum gracile*	*Gonyaulax digitale*	ciliates	ciliates	ciliates	ciliates	ciliates	ciliates
count (cells/mL)	30	5	10	100	~20	~10	80	2	1	~40	3	20	3	6	3	1	2	1	3	4	1
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	5	20	10	5	5	0	0	0	0	10	30	0	10	10	15	0	0	0	0	0	0
Dinoflagellates	60	40	60	20	80	20	90	55	40	25	20	20	30	75	55	0	15	0	0	0	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	10	5	5	5	10	2	45	60	10	20	20	5	5	20	80	55	80	60	50	80
Zooplankton	30	30	25	70	10	70	8	0	0	55	30	60	55	10	10	20	30	20	40	50	20
Biomass	3.0	1.0	1.0	2.0	1.5	1.0	2.5	1.0	1.0	2.0	1.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Table 55 : Diatoms in Shelter Channel samples.

date	14-May			20-May			28-May			04-Jun			11-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.	1		1																											
Amphiprora/ Tropidoneis																														
Asterionella japonica											1																			
Bacteriastrum sp.			1																											
Biddulphia sp.									1						1															
Campylosira/Plagiogramma																														
Cerautalina sp.																									1					
Chaetoceros concavicorne														1																
Chaetoceros convolutus			1											1															1	
Chaetoceros sp.	5	5	5	2	3	3	2	1	1	2	5	5	2	2	5		1		4	3	2	6	8	7	5	2	4	5	3	
Corethron hystrix			1																											
Coscinodiscus sp.																														
Cylindrotheca closterium				1		1						1			1		1		1				1						1	
Dactyliosolen sp.																														
Detonula pumila											1			1																
Ditylum brightwellii											1				1					1			1	1	1	1	1	1	1	1
Eucampia zoodiacus															1		1		1	1	1	1	1	1	1	1	1	1	1	1
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1	1							1	1	1	1		1	1							1	1	1	1	1	1	1	1
Leptocylindrus minimus																														
Licmophora sp.								1										1				1			1				1	
Melosira sp.																														
Navicula sp.	1	1										2		1			1	1												
Nitzschioid sp.	1	1	3	1		1			2	1	2	2	1	1	1		1	1	1	1	1	1	2	2				1	1	1
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera									1																			1		1
Rhizosolenia sp. (pointy)		2	1	1	1	1			1				2	2	1				1			1	1	1	1	1	1	1	1	1
Rhizosolenia sp. (blunt)								1						1																1
Rhizosolenia stolterfothii										1	1	1		1	1								1	1	1	1	1	1	1	1
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Thalassionema sp.	1	1	1	1	1	1			1	1	1		1	1					1	1										
Thalassiosira sp.		2	2	1	1	1	1		1	1	1	2	1	1	1		1		1	1	1	1	1	1	1	1	1	1	1	

Table 55 cont'd

date	23-Jul			30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica		1		1	1					1																				
Bacteriastrum sp.	1	1																												
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerataulina sp.																														
Chaetoceros concavicorne			1																											
Chaetoceros convolutus	1	1	1																											
Chaetoceros sp.	6	8	7	4	2	3	4	4	5	2			2	2	3															
Corethron hystrix																														
Coscinodiscus sp.									1																					
Cylindrotheca closterium	1	1	1																		1									
Dactyliosolen sp.	1	1					1		1																					
Detonula pumila																														
Ditylum brightwellii	1	1	1	1	1	1	1	1	1		1																			
Eucampia zoodiacus	1	1	1	1	1	1	1	1			1	1		1	1															
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
Leptocylindrus minimus	1	1	1				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Licmophora sp.																														
Melosira sp.																														
Navicula sp.	1	1						1	1								1													
Nitzschioid sp.	1	1	1	1	1	1	1	1	1			1	1		1															
Pleurosigma/ Gyrosigma sp.			1			1					1																			
Rhizosolenia setigera	1	1	1	1	1	1	1	1	1	1	1			1	1	1								1	1		1			
Rhizosolenia sp. (pointy)		1	1		1	1				1																				
Rhizosolenia sp. (blunt)									1																					
Rhizosolenia stolterfothii	1	1	1		1	1		1	1				1		1															
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1		1	1															
Stephanopyxis sp.								1	1						1															
Thalassionema sp.																														
Thalassiosira sp.	1	3	2	1	1	1	1	1	2	1	1	1	1	1	1		1	1		1	1					1				

Table 55 cont'd

date	01-Oct			08-Oct			15-Oct			22-Oct			29-Oct			05-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																								
Achnanthes sp.																								
Amphiproral Tropidoneis																								
Asterionella japonica																								
Bacteriastrum sp.																								
Biddulphia sp.							1																	
Campylosira/Plagiogramma																								
Cerataulina sp.																								
Chaetoceros concavicorne																								
Chaetoceros convolutus																								
Chaetoceros sp.																								
Corethron hystrix																								
Coscinodiscus sp.																								
Cylindrotheca closterium																								
Dactyliosolen sp.																								
Detonula pumila																								
Ditylum brightwellii																								
Eucampia zoodiacus																								
Grammatophora sp.																								
Hemialus sp.																								
Lauderia annulata																								
Leptocylindrus danicus																								
Leptocylindrus minimus								1																
Licmophora sp.																								
Melosira sp.																								
Navicula sp.																								
Nitzschioid sp.																								
Pleurosigma/ Gyrosigma sp.																								
Rhizosolenia setigera																								
Rhizosolenia sp. (pointy)																								
Rhizosolenia sp. (blunt)																								
Rhizosolenia stolterfothii																								
Skeletonema costatum																								
Stephanopyxis sp.																								
Thalassionema sp.																								
Thalassiosira sp.								2	1				1						1		1			

Table 56 : Diatoms in Shelter Channel samples.

date	14-May			20-May			28-May			04-Jun			11-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.		1																												
Amphidinium sp.		1	1																				1		1					
Ceratium divericatum																														
Ceratium furca															1															
Ceratium fusus																														
Ceratium lineatum				1									1		1															
Ceratium sp.																														1
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.	1																			1				1						
Diplopsalis lenticula																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	1	5	5				3	3	2	3	1	1	5	3	4	3	3		4	2	1	2	4	3	4	2	2	6	4	5
Gymnodinium galathesnum																														
Gyrodinium spirale-type	1	1	1	1	1		2	1	1		1		1	1	1	1		1	1	1		2	2	2	2	1	2		1	
Heterocapsa triquetra	1	1					1			1										1		1	1		1		1	1	1	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile							1						1									1	1		1	1	1	1	1	1
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	5	4	3	2	2	1	4	2	2		1	1	2	4	4	2	2	1	1			6	7	2	1	1	2	3	4	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																						1	1							

Table 56 cont'd

date	23-Jul			30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																	1					1								
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus					1						1							1												
Ceratium lineatum																		1												
Ceratium sp.																														
Cochlodinium polykrikoides	1						1			1	1				1	1						1			1	1	1	1	1	1
Cochlodinium sp.																														
Dinophysioid sp.				1			2										2						1		1					
Diplopsalis lenticula										1																				1
Gonyaulacoid sp.	1						1	1								1														
Gymnodinioid sp.	4	7	2	4	3	1	3	2	3	4	5	3	2	3	2	3		1	4	2	3	3	3	1	3	3	2	3	3	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type		2				1	2	1					2	1	1	1			1	2		2	1	1	1	1		1		
Heterocapsa triquetra	1	1		1	1		1	1		1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	
Noctiluca scintillans									1																					
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																1												1	1	
Polykrikos sp.											1																			
Prorocentrum gracile	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Prorocentrum micans							1			1	1	1										1			1			1	1	
Prorocentrum sp.																														
Protoperidinioid sp.	4	3		4	4	3	3		1	2	2	1	3	4	2	3	2		2	1	2	6	2	2	3	1	1	4	4	2
Pyrocystis lunula										1																				
Raphidophytes																														
Heterosigma akashiwo										1	1	1							1	1	1	1	1	1				1		1

Table 56 cont'd

date	01-Oct			08-Oct			15-Oct			22-Oct			29-Oct			05-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																								
Alexandrium sp.																								
Amphidinium sp.	1																							
Ceratium divericatum																								
Ceratium furca													1		1							1		
Ceratium fusus	1		1					1								1								
Ceratium lineatum																								
Ceratium sp.																								
Cochlodinium polykrikoides	1				1					1	1				1									
Cochlodinium sp.															1									
Dinophysioid sp.	2																							
Diplopsalis lenticula																								
Gonyaulacoid sp.	1	1	1	1		1	1	1	1	1														
Gymnodinioid sp.	5	2	3	2	2	1	4	3	4		1	1	1	1	1	1	2	2	1	1	1			
Gymnodinium galatheanum																								
Gyrodinium spirale-type	3		1	1			1		1						1			1		1				
Heterocapsa triquetra				1						1														
Noctiluca scintillans																								
Noctilucoid sp.																								
Oxyrrhis marina																								
Oxyphysis oxytoxoides																								
Polykrikos sp.																								
Prorocentrum gracile	1	1	1	1	1	1				1														
Prorocentrum micans	1						1			1			1	1	1	1	1	1	1		1	1	1	1
Prorocentrum sp.																								
Protoperidinioid sp.		1	1				1	1	1			1	1			1	1			1		1		
Pyrocystis lunula																								
Raphidophytes																								
Heterosigma akashiwo	1		1																					

Table 57 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Shelter Channel samples.

date	14-May			20-May			28-May			04-Jun			11-Jun			18-Jun			25-Jun			02-Jul			09-Jul			16-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1		1			1	1	1	1	1	1	1	1	1					1										
Dinobryon balticum																											1			
Ebria tripartita																														
Euglenoid	1									1		1																		
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	4	4	3	3	3	4	4	4	3	3	6	3	4	4	3	3	3	2	3	3	5	2	3	5	4	3	4	4
Zooplankton																														
Appendicularian																														
Ciliate	7	5	8	1	1	1	6	3	1	4	5	2	2		2	4		1	2	4	1	4	7	5	1	2	1	1	3	1
Copepod													1																	
Nauplius																														
Pluteus																							1							
Rotifer																							2							1
Tintinnid	2	1	2	1				1		1		1		1	2	1	1													
Zoea																		1												
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira nordenskioeldi*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonems costatum*	*Skeletonems costatum*	*Skeletonems costatum*	*Skeletonems costatum*	*Skeletonems costatum*	*Skeletonems costatum*	*Skeletonems costatum*	*Skeletonems costatum*	*Pseudonitzschia sp.*	diatoms	*Pseudonitzschia sp.*	diatoms	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*
count (cells/mL)	900	900	2000	80	1000	500	150	400	50	13420	2880	3560	1560	1280	460	50	30	50	7600	15300	2400	2000	6000	3400	500	150	120	600	400	300
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	103	100	100	100	100	100	100	100	100	100
Diatoms	45	50	70	49	60	80	40	51	55	95	90	93	64	69	76	35	50	40	86	85	92	85	85	85	60	67	70	73	64	77
Dinoflagellates	25	30	14	35	29	10	40	35	37	2	3	3	30	25	20	30	40	30	10	8	3	10	10	10	38	30	28	25	30	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Other Flagellates	3	2	1	1	1	1	3	4	3	1	1	1	2	4	2	10	5	15	1	2	4	1	1	1	1	1	1	1	1	1
Zooplankton	27	18	15	15	10	9	17	10	5	2	6	3	4	2	2	25	5	15	3	5	3	4	4	4	1	2	1	1	5	2
Biomass	2.5	3.0	3.5	3.0	3.0	2.5	2.0	2.5	2.0	4.5	4.0	4.0	3.0	3.0	3.5	2.0	2.0	1.0	3.5	4.0	3.0	3.5	4.0	4.0	3.5	3.0	3.0	3.5	3.5	3.0

Table 57 cont'd

date	23-Jul			30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1							1					1	1			1			1										
Dinobryon balticum																														
Ebria tripartita			1	1						1			1	1			1		1			1								
Euglenoid	1																		1		1	1	1	1	1		1		1	
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	5	4	2	4	5	5	3	4	3	3	4	3	2	2	4	3	2	6	3	5	4	5	4	3	4	5	4	3	4
Zooplankton																														
Appendicularian																														
Ciliate	5	7	2	3	2	2	4	3	2	1	3	2	2	1	1	1	3		6	5	5	7	4	3	4	3	3	3	3	2
Copepod																														
Nauplius			1	1																										
Pluteus																														
Rotifer		1																												
Tintinnid								1		1	1	1	1	1							1	1			1	1	1	1	1	
Zoea																														
other													1																	
Dominant Species/Group																														
name	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Prorocentrum gracile*	*Ditylum brightwellii*	*Leptocylindrus danicus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Heterosigma akashiwo*	ciliates	dinoflagellates	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*
count (cells/mL)	130	1000	240	700	250	50	230	20	300	3000	1300	820	420	70	210	60	100	10	210	20	30	1600	600	430	910	330	240	600	220	170
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	105	100	100	100	100	100	100	100	100
Diatoms	65	80	90	60	67	77	40	55	60	50	50	64	35	63	78	30	35	20	5	5	15	5	5	5	5	5	4	0	0	0
Dinoflagellates	30	15	7	36	30	20	50	35	35	45	40	30	60	35	20	67	35	78	38	25	35	15	30	30	85	90	90	92	93	96
Raphidophytes	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	45	10	15	70	45	50	0	0	0	2	0	0
Other Flagellates	2	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	5	2	2	10	10	3	5	5	2	1	2	1	2	1
Zooplankton	3	4	2	3	2	2	7	9	4	4	5	3	4	1	1	2	25	0	10	50	25	12	15	10	8	4	4	5	5	3
Biomass	3.5	4.0	3.5	3.5	3.0	2.5	3.5	3.0	2.5	3.0	2.5	2.0	3.0	2.5	3.0	2.5	1.5	1.5	3.0	2.0	2.0	3.5	3.0	3.0	4.0	3.5	3.0	4.0	3.5	3.0

Table 57 cont'd

date	01-Oct			08-Oct			15-Oct			22-Oct			29-Oct			05-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																								
Cryptomonads																								
Dictyocha speculum							1									1		1						
Dinobryon balticum																								
Ebria tripartita																								
Euglenoid				1									1											
Phaeocystis pouchetii																								
Radiolarian																								
unid. Nanoflagellates	6	4	2	4	4	3	4	5	4	4	3	5	4	2	3	4	4	5	4	5	5	5	4	3
Zooplankton																								
Appendicularian																								
Ciliate	8	1	4	4	2	1	4	3	4	4	2	1	4	2	5	2	1	2	3	2	2	2	2	1
Copepod																								
Nauplius														1										
Pluteus																								
Rotifer																								
Tintinnid															1									
Zoea																								
other																								
Dominant Species/Group																								
name	*Gonyaulax digitale*	*Gonyaulax digitale*	dinoflagellates	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Prorocentrum micans*	ciliates	ciliates	ciliates	ciliates	ciliates	*Prorocentrum micans*	*Prorocentrum micans*	*Prorocentrum micans*	ciliates	ciliates	*Prorocentrum micans*	*Prorocentrum micans*	*Prorocentrum micans*	*Prorocentrum micans*
count (cells/mL)	60	3	10	10	10	5	5	4	3	10	5	2	~40	~20	~20	10	5	3	10	5	2	2	1	2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	90	100
Diatoms	0	0	0	0	0	0	5	10	15	0	0	0	5	0	0	0	0	0	10	0	10	0	0	0
Dinoflagellates	65	80	50	80	90	85	60	65	55	65	50	65	30	20	40	65	85	70	30	35	50	55	25	30
Raphidophytes	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	10	4	3	2	5	10	5	5	2	10	10	15	5	5	5	5	5	10	10	10	15	25	50
Zooplankton	30	10	45	17	8	10	25	20	25	33	40	25	50	75	55	30	10	25	50	55	30	30	40	20
Biomass	3.5	1.5	1.5	2.5	1.5	1.0	2.0	1.5	1.5	2.5	1.0	1.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.0	1.0	1.5	1.0	1.0

Table 58 : Diatoms in Gibson Cove samples.

date	22-May			29-May			05-Jun			12-Jun			19-Jun			28-Jun			02-Jul			10-Jul			17-Jul			24-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																								1		1				
Bacteriastrum sp.																									1	1	1	1	1	1
Biddulphia sp.																				1										
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																					1									
Chaetoceros convolutus																								1	1	1				
Chaetoceros sp.								1		1	1					4	2	1	4	3	4	5	5	4	9	10	8	5	4	4
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium							1	1																						
Dactylisolen sp.																									1			1		
Detonula pumila																														
Ditylum brightwellii																			1		1	1	1	1	1	1		1	1	
Eucampia zoodiacus																			1				1	1	1	1	1	1		1
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																			1		1	1	1	1	1	1	1	1	1	1
Leptocylindrus minimus										1															1					
Licmophora sp.										1																				
Melosira sp.																									1					
Navicula sp.																														
Nitzschioid sp.									1	1	1	1				1	1	1	1	1	1		1	1	1	1			1	
Pleurosigma/ Gyrosigma sp.																														1
Rhizosolenia setigera																									1			1		
Rhizosolenia sp. (pointy)																1								1	1	1				
Rhizosolenia sp. (blunt)																							1							
Rhizosolenia stolterfothii																				1		1		1	1		1			
Skeletonema costatum					1		1				1		1	1	1	1			1	1		1	1	1	1			1		
Stephanopyxis sp.																														
Thalassioneme sp.							1			1									1			1	1	1						
Thalassiosira sp.	1	1	1				1			1						1		1	2	1	1									1

Table 58 cont'd

date	31-Jul			07-Aug			14-Aug			21-Aug			28-Aug			04-Sep			11-Sep			18-Sep			03-Oct			10-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnant es sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica	1																													
Bacteriastrum sp.	1	1	1	1		1																								
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	6	4	2	2	2	2	2	4	5				1					1												
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium																		1		1										
Dactylisolen sp.				1	1	1																								
Detonula pumila																														
Ditylum brightwellii		1		1	1	1		1															1	1						
Eucampia zoodiacus	1	1	1	1		1																								
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1		1	1		1			1	1	1																	
Leptocylindrus minimus								1	1				1	1	1	1	1	1				1							1	
Licmophora sp.																														
Melosira sp.																														
Navicula sp.																		1							1					
Nitzschioid sp.				1																					1					
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera				1	1			1	1				1	1	1	1				1										
Rhizosolenia sp. (pointy)	1		1		1				1												1									
Rhizosolenia sp. (blunt)						1																								
Rhizosolenia stolterfothii	1	1	1		1	1							1	1		1														
Skeletonema costatum					1	1		1	1		1	1	1		1		1	1	1	1	1						1	1		
Stephanopyxis sp.																														
Thalassionema sp.			1					1				1																		
Thalassiosira sp.									1	1	1	1		1		1				1	1	1	1	1			1		1	

Table 58 cont'd

date	29-Oct			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms									
Achnanthes sp.									
Amphiproral Tropidoneis									
Asterionella japonica									
Bacteriastrum sp.									
Biddulphia sp.									
Campylosiral Plagiogramma			1						
Cerautalina sp.									
Chaetoceros concavicorne									
Chaetoceros convolutus									
Chaetoceros sp.									
Corethron hystrix									
Coscinodiscus sp.									
Cylindrotheca closterium									
Dactylisolen sp.									
Detonula pumila									
Ditylum brightwellii									
Eucampia zoodiacus									
Grammatophora sp.									
Hemialus sp.									
Lauderia annulata									
Leptocylindrus danicus									
Leptocylindrus minimus									
Licmophora sp.									
Melosira sp.									
Navicula sp.									
Nitzschioid sp.	1								
Pleurosigmal Gyrosigma sp.									
Rhizosolenia setigera	1	1	1						
Rhizosolenia sp. (pointy)									
Rhizosolenia sp. (blunt)									
Rhizosolenia stolterfothii									
Skeletonema costatum		1		1	1		1		
Stephanopyxis sp.									
Thalassionema sp.									
Thalassiosira sp.	1			1			1		

Table 59 : Dinoflagellates in Gibson Cove samples.

date	22-May			29-May			05-Jun			12-Jun			19-Jun			28-Jun			02-Jul			10-Jul			17-Jul			24-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																							1							
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																													1	
Ceratium lineatum																														1
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																		1	1		1	1	1		1			2	2	2
Diplopsalis sp.																														
Gonyaulacoid sp.																1														
Gymnodinioid sp.				2	1	1	5	3	3	2	3	4	2	2	2	7	3	5	3	2	3	3	4	4	10	6	5	7	6	4
Gymnodinium galatheanum																														
Gyrodinium spirale-type							2				1	1	1	1		3	1	1	1	2	1	1		2	2		1	1		1
Heterocapsa triquetra				1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile							1						1		1										1	1				
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.				1	1	2			1				1	1		4	1	2	1	1	2	2	1	3	4	2	1	3		3
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 59 cont'd

date	31-Jul			07-Aug			14-Aug			21-Aug			28-Aug			04-Sep			11-Sep			18-Sep			03-Oct			10-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.													1										1					1	1	
Amphidinium sp.														1								1				1				
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus		1					1		1						1	1	1	1		1			1	1	1	1	1	1	1	
Ceratium lineatum		1			1				1			1		1	1			1		1	1		1	1		1	1	1	1	
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides													1	1	1										1	1	1		1	
Cochlodinium sp.																										1				
Dinophysioid sp.	2		1		1				1	1	1	1			1	1	2	1		1			1				2		1	
Diplopsalis sp.								1		1									1	1		1	1	1	1			1	1	
Gonyaulacoid sp.																		1												
Gymnodinioid sp.	5	3	6	1	4	4	2	3	5	3	3	1	6	5	7	5	4	2	4	5	4	3	5	6	7	8	6	5	6	
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1	2	1	1	1						1	1	1	1		1	2	1		1	1	1	2	2	3		3	2	
Heterocapsa triquetra	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1			1			1	1	1			
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina														1																
Oxyphysis oxytoxoides														1		1						1							1	
Polykrikos sp.																														
Prorocentrum gracile	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Prorocentrum micans												1				1	1	1	1	1		1	1	1	1	1	1	1	1	
Prorocentrum sp.																														
Protoperidinioid sp.	1	1	1	1	2	2		1	3	2	1	3	3	2	6	4	6	7	2	3	2	6	3	3	2	1	4	2	2	
Pyrocystis lunula																										1				
Raphidophytes																														
Heterosigma akashiwo	1	1	1												1				1	1	1	1	1	1						

Table 59 cont'd

date	29-Oct			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates									
Alexandrium sp.									
Amphidinium sp.									
Ceratium divericatum									
Ceratium furca									
Ceratium fusus									
Ceratium lineatum									
Ceratium pentagonum									
Ceratium sp.									
Cochlodinium polykrikoides	1								
Cochlodinium sp.									
Dinophysioid sp.	1								
Diplopsalis sp.									
Gonyaulacoid sp.	1					1			
Gymnodinioid sp.	5	4	2	5	6	4		1	
Gymnodinium galatheanum									
Gyrodinium spirale-type	1			1	1		1		
Heterocapsa triquetra		1	1						
Noctiluca scintillans									
Noctilucoid sp.									
Oxyrrhis marina									
Oxyphysis oxytoxoides									
Polykrikos sp.									
Prorocentrum gracile									
Prorocentrum micans	1	1	1				1		1
Prorocentrum sp.									
Protoperidinioid sp.		2					1		
Pyrocystis lunula									
Raphidophytes									
Heterosigma akashiwo									

Table 60 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Gibson Cove samples.

date	22-May			29-May			05-Jun			12-Jun			19-Jun			28-Jun			02-Jul			10-Jul			17-Jul			24-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum							1	1	1							1		1			1				1				1	1
Dinobryon balticum																														
Ebria tripartita									1					1	1				1	1	1									
Euglenoid							1			1				1																
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	5	4	4	4	3	3	3	4	3	4	3	3	4	3	3	4	2	3	4	5	3	3	3	3	3	4	3	2	3	3
Zooplankton																														
Appendicularian																														
Ciliate	1	1	1	2	2	1	5	2	1	3	3	3	4	3	4	1	1	1	5	2	6	2	2	2	5	3	1	5	2	2
Copepod		1						1																						
Nauplius					1											1														
Pluteus																														
Rotifer																					1	1	1			1				
Tintinnid					1		1																							
Zoea																				1										
other																														
Dominant Species/Group																														
name	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Heterocapsa triquetra*	*Skeletonema costatum*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*ciliates*	*ciliates*	*ciliates*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*dinoflagellates*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Pseudonitzschia sp.*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Skeletonema costatum*	*Chaetoceros spp*	*Chaetoceros spp*	*Chaetoceros spp*	*Bacteriastrum delicatulum*	*Chaetoceros spp*	*Bacteriastrum delicatulum*
count (cells/mL)	40	20	1	20	25	10	80	20	10	15	40	20	100	40	10	140	20	80	60	40	120	140	80	300	900	600	700	780	450	100
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	110	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	60	50	0	18	0	10	5	5	30	30	8	2	2	2	30	20	18	43	40	40	54	60	60	45	60	70	75	70	65
Dinoflagellates	0	0	0	70	50	70	70	78	85	25	28	45	77	86	60	66	87	79	35	53	30	40	35	34	40	30	25	20	22	30
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	10	10	2	5	2	2	8	5	2	2	1	2	4	1	1	2	2	2	5	1	1	2	1	1	1	1	7	3
Zooplankton	10	35	40	20	30	25	18	15	2	40	40	45	20	10	34	3	2	1	20	5	25	5	4	4	14	9	4	4	1	2
Biomass	1.5	1.5	1.0	1.5	1.5	1.0	2.5	2.0	1.5	1.5	1.5	1.5	1.5	1.0	1.0	3.0	2.5	3.0	3.0	3.0	3.5	3.0	3.0	3.0	3.5	3.0	3.0	3.5	3.0	3.0

Table 60 cont'd

date	31-Jul			07-Aug			14-Aug			21-Aug			28-Aug			04-Sep			11-Sep			18-Sep			03-Oct			10-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum			1		1	1		1				1	1		1	1	1	1	1	1	1		1	1	1		1	1	1	
Dinobryon balticum																														
Ebria tripartita				1	1					1		1	1			1	1	1	1	1	1								1	
Euglenoid			1																					1						
Phaeocystis pouchetii														1	1															
Radiolarian															1															
unid. Nanoflagellates	3	4	2	4	4	3	3	4	4	3	3	3	3	2	3	4	5	5	3	3	3	6	7	4	5	5	6	7	6	
Zooplankton																														
Appendicularian					1																									
Ciliate	2	1	1	1	1	1	2	2	2	1	1	1	5	4	4	2		2	5	4	2	1	4	2	3	4	3	8	5	
Copepod						1			1																					
Nauplius		1										1									1		1				1	2	2	
Pluteus																														
Rotifer																	1		1	1		1			2					
Tintinnid							1																							
Zoea																														
other								1							1				1											
Dominant Species/Group																														
name	*Bacteriastrum delicatulum*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterocapsa triquetra*	*Leptocylindrus danicus*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Thalassiosira nordenskioeld*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Skeletonema costatum*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Prorocentrum micans*	*Prorocentrum micans*	*Prorocentrum micans*	*Alexandrium catenella*	*Prorocentrum micans*	no sample
count (cells/mL)	330	200	460	60	200	60	200	100	170	20	20	30	10,000	11,000	7,000	480	190	150	350	40	150	1200	200	180	1700	200	200	320	70	
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	65	52	25	50	50	55	30	50	45	5	30	50	65	68	51	10	5	10	25	20	40	5	5	5	10	0	5	3	3	6
Dinoflagellates	30	25	30	45	44	41	65	44	50	90	67	46	30	25	40	84	63	65	55	68	52	36	40	40	55	70	65	75	80	62
Raphidophytes	1	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	5	2	50	45	47	0	0	0	0	0	0
Other Flagellates	1	1	4	2	3	1	1	2	1	2	1	2	2	2	3	1	30	22	2	2	3	4	5	5	30	20	20	5	2	17
Zooplankton	3	2	1	3	3	3	4	4	4	3	2	2	3	5	6	5	2	3	10	5	3	5	5	3	5	10	10	17	15	15
Biomass	3.0	3.0	3.5	3.5	4.0	3.5	3.5	3.0	3.0	2.0	2.5	3.0	4.0	4.0	4.0	3.5	3.5	3.0	3.5	3.5	3.0	4.0	3.0	3.0	4.5	3.5	3.5	4.0	3.5	3.0

Table 60 cont'd

date	29-Oct			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates									
Cryptomonads									
Dictyocha speculum	1	1							
Dinobryon balticum									
Ebria tripartita									
Euglenoid									
Phaeocystis pouchetii									
Radiolarian									
unid. Nanoflagellates	5	4	4	4	2	3	3	4	3
Zooplankton									
Appendicularian									
Ciliate	6	5	2	5	6	3		2	1
Copepod									
Nauplius			1						
Pluteus									
Rotifer									
Tintinnid			1						
Zoea									
other									
Dominant Species/Group									
name	*Prorocentrum micans*	dinoflagellates	*Prorocentrum micans*	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	*Prorocentrum micans*	ciliates	*Prorocentrum micans*
count (cells/mL)	20	~50	3	~40	~40	~20	3	9	1
% constituent	100	100	100	100	100	100	100	100	100
Diatoms	5	5	10	5	5	0	40	0	0
Dinoflagellates	65	45	50	45	50	65	50	15	25
Raphidophytes	0	0	0	0	0	0	0	0	0
Other Flagellates	10	15	10	5	1	1	10	35	60
Zooplankton	20	35	30	45	44	34	0	50	15
Biomass	2.5	2.0	1.5	1.5	2.0	1.5	1.5	1.0	1.0

Table 61 : Diatoms in Bedwell Sound samples.

date	11-Jun			18-Jun			25-Jun			03-Jul			11-Jul			16-Jul			22-Jul			31-Jul			07-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica			1		1																									
Bacteriastrum sp.					1	1																								
Biddulphia sp.						1	2	1		1		1	1															1	1	1
Cerautalina sp.					1																									
Chaetoceros concavicorne						1	1																							
Chaetoceros convolutus	1	1				1			1																					
Chaetoceros sp.	3	3	3	10	10	9	3	4	5		1	1	1		1				2	1		3	1		5	4	2	5	5	1
Corethron hystrix																														
Coscinodiscus sp.									1														1						1	
Cylindrotheca closterium	1			1	1	1		1	1											1	1				1			1	1	
Dactylisolen sp.																												1		
Detonula pumila																														
Ditylum brightwellii				1	1	1	1	1	1													1		1	1	1	1	1	1	1
Eucampia zoodiacus	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1		1	1	1	1	1	1	
Grammatophora sp.																														
Hemiaulus sp.							1																							
Lauderia annulata						1																								
Leptocylindrus danicus	1		1			1		1	1	1	1			1	1	1	1		1	1	1	1	1	1		1	1	1		
Leptocylindrus minimus				1	1	1					1				1													1	1	
Licmophora sp.	1																													
Melosira sp.																														
Navicula sp.						1	1	1	1																			1	1	1
Nitzschioid sp.	1	1		1	2	2	1	1	1			1							1						1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.	1																												1	
Rhizosolenia setigera								1	1										1					1	1	1		1	1	
Rhizosolenia sp. (pointy)	1				1	1		2	2					1					1				1	1			1		1	
Rhizosolenia sp. (blunt)	1		1		1	1																								
Rhizosolenia stolterfothii			1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Skeletonema costatum	1	1	1	1	1	1	1	1	1																					
Stephanopyxis sp.												1	1		1		1			1	1		1	1		1	1			
Thalassionema sp.					1			1															1	1	1		1		1	1
Thalassiosira sp.	1	1	1	3	3	2	1	1	1	1										1	1	1	1	1	1	1	2	1	2	1

Table 61 cont'd

date	20-Aug			27-Aug			05-Sep			10-Sep			17-Sep			24-Sep			01-Oct			08-Oct			15-Oct			22-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																		1												
Amphiproral Tropidoneis																														
Asterionella japonica					1																									
Bacteriastrum sp.																														
Biddulphia sp.					1	1																								
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	3	3	3	3	3	2	1	1	1	2				1	1		2			1	2	1	2	2	5	3	3		1	
Corethron hystrix																														
Coscinodiscus sp.									1		1														1		1			
Cylindrotheca closterium					1				1					1											1					
Dactylisolen sp.																														
Detonula pumila																							1		1					
Dityium brightwellii	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1		1	1		1	1	1	1	1			
Eucampia zoodiacus		1		1	1	1	1	1	1	1	1	1			1		1				1	1	1	1	1	1	1			
Grammatophora sp.																														
Hemiaulus sp.										1	1	1	1	1		1	1	1		1	1	1		1	1					
Lauderia annulata																														
Leptocylindrus danicus				1	1	1				1	1	1		1		1	1	1							1					
Leptocylindrus minimus	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1							1	1	1			
Licmophora sp.																														
Melosira sp.																														
Navicula sp.				1	1	1			1			1							1											
Nitzschioid sp.	1	1		1	1	1		1	1	1	1	1		1	1			1	1	1	1	1								
Pleurosigma/ Gyrosigma sp.								1																						
Rhizosolenia setigera	1	1		1	1	1	1	1	1	1	1	1	1		1			1			1									
Rhizosolenia sp. (pointy)		1	1		1			2				1											1							
Rhizosolenia sp. (blunt)								1				1																	1	
Rhizosolenia stolterfothii				1	1		1	1		1		1									1		1	1	1	1				
Skeletonema costatum	1	1	1	1						1															1	1				
Stephanopyxis sp.																														
Thalassionema sp.	1	1	1	1	1	1	1	1										1					1		1	1	1			
Thalassiosira sp.	1	1	1		3	1	1	2		1		1	1	1	1		1	1	2	2	2	1	2	2	3	2	2			1

Table 61 cont'd

date	29-Oct			07-Nov			12-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms												
Achnanthes sp.												
Amphiprora/ Tropidoneis												
Asterionella japonica												
Bacteriastrum sp.												
Biddulphia sp.												
Cerautalina sp.												
Chaetoceros concavicorne												
Chaetoceros convolutus												
Chaetoceros sp.												
Corethron hystrix												
Coscinodiscus sp.			1									
Cylindrotheca closterium												
Dactylisolen sp.												
Detonula pumila												
Ditylum brightwellii												
Eucampia zoodiacus		1										
Grammatophora sp.												
Hemiaulus sp.												
Lauderia annulata												
Leptocylindrus danicus												
Leptocylindrus minimus												
Licmophora sp.												
Melosira sp.									1			
Navicula sp.			1									
Nitzschioid sp.												
Pleurosigma/ Gyrosigma sp.												
Rhizosolenia setigera												
Rhizosolenia sp. (pointy)												
Rhizosolenia sp. (blunt)												
Rhizosolenia stolterfothii												
Skeletonema costatum				1	1	1		1	1			
Stephanopyxis sp.												
Thalassionema sp.												
Thalassiosira sp.				1						1		

Table 62 : Dinoflagellates in Bedwell Sound samples.

date	11-Jun			18-Jun			25-Jun			03-Jul			11-Jul			16-Jul			22-Jul			31-Jul			07-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.															1					1	1								1	
Amphidinium sp.								1																						
Ceratium divericatum																														
Ceratium furca																							1	1					1	
Ceratium fusus													1																	
Ceratium lineatum																							1					1	1	
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.		1											1		1					1		1	2			1		1		
Diplopsalis lenticula																														
Gonyaulacoid sp.					1									1																
Gymnodinioid sp.	5	6	3		2	2	4	5	7	3	3	2	2	3	4	1	1	1	3	7	3	1	3	2	2	1	1	7	8	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1			1		3	1	3	2	3	3	1	1	1			1	2	2	2								1	
Heterocapsa triquetra																			1											
Noctiluca scintillans									1														1						1	
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Polykrikos sp.																							1							
Prorocentrum gracile	1																								1	1		1	1	
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	2	1	1	3	2	1	5	5	2	5			2	2	1			3	3	1	1	5	3	1	2	1	4	4	2
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 62 cont'd

date	20-Aug			27-Aug			05-Sep			10-Sep			17-Sep			24-Sep			01-Oct			08-Oct			15-Oct			22-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.													1																	
Amphidinium sp.						1		1																						
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus								1									1	1			1			1						
Ceratium lineatum																							1							
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides				1	1	1	1	1	1	1			1	1	1	1	1	1	1		1				1		1			
Cochlodinium sp.					1																									
Dinophysioid sp.		1						1		1																			1	
Diplopsalis lenticula		1		1																										
Gonyaulacoid sp.							1																							
Gymnodinioid sp.	2	2	1	4	5		5	5	2	3	1		1	2	1	1	1	3	4	4	3	1		1	3	1	1	2	1	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1			1	1	1	3	2					1	1		1					1									
Heterocapsa triquetra				1						1						1														
Noctiluca scintillans	1				1													1												
Noctilucoid sp.																														
Oxyphysis oxytoxoides				1																										
Oxyrrhis marina																														
Polykrikos sp.																														
Prorocentrum gracile				1			1									1			1											
Prorocentrum micans																1									1					
Prorocentrum sp.																														
Protoperidinioid sp.	2	1		3	5	2	4	3	2	6	1	1	2		2		1	2	2		2		1		3	1	3		1	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo	1		1	1						1															1	1	1			

Table 62 cont'd

date	29-Oct			07-Nov			12-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
Alexandrium sp.												
Amphidinium sp.												
Ceratium divericatum												
Ceratium furca	1											
Ceratium fusus												
Ceratium lineatum	1			1			1					
Ceratium pentagonum												
Ceratium sp.												
Cochlodinium polykrikoides	1											
Cochlodinium sp.												
Dinophysioid sp.				1								
Diplopsalis lenticula												
Gonyaulacoid sp.												
Gymnodinioid sp.	1	2	4	1	1	1	1	1	1		1	1
Gymnodinium galatheanum												
Gyrodinium spirale-type			1									
Heterocapsa triquetra				1			1					
Noctiluca scintillans						1			1			
Noctilucoid sp.												
Oxyphysis oxytoxoides												
Oxyrrhis marina												
Polykrikos sp.												
Prorocentrum gracile												
Prorocentrum micans	1	1		1	1		1	1	1			
Prorocentrum sp.												
Protoperidinioid sp.								1				
Pyrocystis lunula												
Raphidophytes												
Heterosigma akashiwo												

Table 63 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Bedwell Sound samples.

date	11-Jun			18-Jun			25-Jun			03-Jul			11-Jul			16-Jul			22-Jul			31-Jul			07-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum		1	1			1												1											1	
Dinobryon balticum																														
Ebria tripartita														1																
Euglenoid													1		1				1			1								
Phaeocystis pouchetii																														
Radiolarian																								1						
unid. Nanoflagellates	3	4	4	4	2	4	4	4	1	3	3	3	4	3	2	3	3	3	3	4	3	3	4	6	3	4	3	3	3	3
Zooplankton																														
Amoeba																														
Appendicularian																1														
Ciliate	4	3	2	1	2	1	1	4	4	1	1		1	1	2		1		3	2	1		5	2	1	1		3	1	
Copepod							1				1												1	1						
Nauplius									1							1			1	1	1									
Pluteus																														
Rotifer																														
Tintinnid								1					1						1		1							1	1	
Zoea																														
other																							1	1						
Dominant Species/Group																														
name	*Thalassiosira nordenskioeld*	*Pseudonitzschia sp.*	*Thalassiosira nordenskioeld*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Chaetoceros spp.*	*Ditylum brightwellii*	*Stephanopyxis turris*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*
count (cells/mL)	60	160	100	2000	5000	1880	240	320	320	320	1100	900	1200	1900	3000	640	540	40	380	800	1700	140	300	80	550	30	160	6000	7000	80
% constituent	100	100	89	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	56	50	97	90	95	74	65	60	85	85	93	75	73	75	90	95	95	69	66	85	89	59	80	75	73	90	90	85	89
Dinoflagellates	30	35	30	1	5	2	20	30	30	12	11	6	20	25	22	5	3	4	25	30	12	10	30	14	22	25	9	8	11	10
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	4	4	1	1	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1
Zooplankton	9	5	5	1	4	1	5	4	9	2	3	0	3	1	2	4	1	0	5	3	2	0	10	4	2	1	0	1	2	0
Biomass	3.0	3.0	3.0	4.0	4.0	4.0	3.0	3.0	3.0	2.5	3.5	3.5	3.5	3.5	4.0	3.5	4.0	2.5	4.0	4.0	4.5	3.0	3.5	2.5	3.5	3.0	3.5	4.0	4.0	2.0

Table 63 cont'd

date	20-Aug			27-Aug			05-Sep			10-Sep			17-Sep			24-Sep			01-Oct			08-Oct			15-Oct			22-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum		1	1	1				1		1					1	1				1		1	1	1	1	1	1	1		
Dinobryon balticum													1												1					
Ebria tripartita							1																							
Euglenoid				1																										
Phaeocystis pouchetii									1																					
Radiolarian																														
unid. Nanoflagellates	2	3	3	4	5	2	2	2	2	1	3	1	2	3	4	3	3	2	5	3	5	3	3	4	6	4	3	4	4	3
Zooplankton																														
Amoeba																									1					
Appendicularian							1											1	1											
Ciliate	4	1		4	6	2	3	7	2	6	1	2		2	2	1		2	5	1	3	1		1	3	1	2	1	1	
Copepod				1																										
Nauplius												1							1						1					
Pluteus																														
Rotifer																														
Tintinnid										1							1	1	1											
Zoea																														
other																														
Dominant Species/Group																														
name	*Ditylum brightwellii*	*Skeletonema costatum*	*Skeletonema costatum*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Ditylum brightwellii*	*Leptocylindrus minimus*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Cochlodinium polykrikoides*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Ditylum brightwellii*	*Cochlodinium polykrikoides*	*Ditylum brightwellii*	*Hemiaulus sinensis*	*Eucampia zoodiacus*	*Eucampia zoochlacus*	*Ditylum brightwellii*	*Eucampia zoodiacus*	*Ditylum brightwellii*	*Eucampia zoodiacus*	*Gymnodinium spp.*	*Chaetoceros sp.*	*Gymnodinium spp.*
count (cells/mL)	15	960	410	23	115	17	520	1100	125	5800	28	54	6300	65	125	4000	450	60	~25	~15	~60	40	35	15	300	20	100	10	5	3
% constituent	101	100	101	100	100	100	100	98	100	101	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	74	88	98	74	73	91	74	84	89	50	95	92	10	92	87	13	30	50	10	80	65	80	80	90	63	90	83	0	70	10
Dinoflagellates	20	10	1	20	20	5	20	8	5	44	2	3	89	5	10	85	68	44	60	18	25	5	5	6	15	5	10	75	20	80
Raphidophytes	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	0	0	0
Other Flagellates	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	10	15	2	10	2	4	15	5	10
Zooplankton	5	1	0	4	6	3	5	5	5	5	2	4	0	2	2	1	1	5	28	1	9	5	0	2	8	3	2	10	5	0
Biomass	2.5	3.0	1.5	4.0	4.0	3.0	3.5	4.0	3.5	3.5	2.5	2.5	4.5	3.0	3.0	4.5	4.0	3.5	3.0	3.0	3.0	2.5	3.0	2.5	4.5	3.0	3.5	1.0	1.0	1.0

Table 63 cont'd

date	29-Oct			07-Nov			12-Nov			20-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates												
Cryptomonads												
Dictyocha speculum												
Dinobryon balticum												
Ebria tripartita												
Euglenoid												
Phaeocystis pouchetii												
Radiolarian												
unid. Nanoflagellates	3	3	3	3	5	4	6	4	5	5	3	6
Zooplankton												
Amoeba												
Appendicularian												
Ciliate	2	1	2	2		1			1		1	1
Copepod												
Nauplius												
Pluteus												
Rotifer												
Tintinnid												
Zoea												
other												
Dominant Species/Group												
name	*Ceratium spp.*	*dinoflagellates*	*dinoflagellates*	*Prorocentrum micans*	*Skeletonema costatum*	*Skeletonema costatum*	*Prorocentrum micans*	*Prorocentrum micans*	*Prorocentrum micans*	*Thalassiosira sp.*	*Gymnodinium sp.*	*Gymnodinium sp.*
count (cells/mL)	2	~5	~5	30	40	15	20	5	3	1	1	1
% constituent	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	10	30	30	70	50	0	20	30	20	0	0
Dinoflagellates	70	50	40	60	25	35	95	70	50	0	25	25
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	20	10	2	5	5	5	10	10	80	60	60
Zooplankton	20	20	20	8	0	10	0	0	10	0	15	15
Biomass	1.5	1.0	1.0	2.5	1.5	1.5	2.5	1.5	1.5	1.0	1.0	1.0

Table 64 : Diatoms in Cypre Bay samples.

date	11-Jun			18-Jun			25-Jun			03-Jul			11-Jul			16-Jul			22-Jul			31-Jul			07-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																												1		
Asterionella japonica					1			1	1																					
Bacteriastrum sp.																														
Biddulphia sp.				1	1		1	2	1		1																			
Campylosira/Plagiogramma																												1		
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus				1																										
Chaetoceros sp.	5	3	6	6	7	5	8	9	7	2	2	2				3	1	1	2	1	1	1	1		4	2		5	1	2
Corethron hystrix																														
Coscinodiscus sp.			1																										1	
Cylindrotheca closterium				1	1	1		1	1	1									1						1			1		1
Dactylisolen sp.																														
Ditylum brightwellii		1		1	1	1	1	1	1	1	1	1										1	1	1	1	1	1	1		1
Eucampia zoodiacus				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1	1	1	1	1			1		1			1	1	1	1	1		1	1	1			1	1	
Leptocylindrus minimus							1	1																				1	1	1
Licmophora sp.																												1		
Melosira sp.																												1	1	
Navicula sp.				1	1		1	1																						
Nitzschioid sp.		1	1	1	1	1	1	2	1										1				1		1	1	1	2	1	2
Pleurosigma/ Gyrosigma sp.				1		1						1																		
Rhizosolenia setigera						1													1	1					1				1	
Rhizosolenia sp. (blunt)				1						1	1									1										
Rhizosolenia sp. (pointy)							2	2	1		1	1					1													
Rhizosolenia stolterfothii		1	1	1			1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1				
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1			1			1			1		
Stephanopyxis sp.																														
Thalassionema sp.				1			1				1							1			1				1	1			1	
Thalassiosira sp.	1	1	1	1	1	1	3	3	1	1	2	1			1	1		1	1	1	1				1	2	2	2	1	1

Table 64 cont'd

date	20-Aug			27-Aug			05-Sep			10-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms												
Achnanthes sp.												
Amphiprora/ Tropidoneis												
Asterionella japonica												
Bacteriastrum sp.												
Biddulphia sp.						1						
Campylosira/Plagiogramma												
Cerautalina sp.												
Chaetoceros concavicorne												
Chaetoceros convolutus												
Chaetoceros sp.	1			3	4	3	2	1	2		1	2
Corethron hystrix												
Coscinodiscus sp.												
Cylindrotheca closterium									1	1	1	
Dactylisolen sp.												
Ditylum brightwellii	1			1	1	1	1	1	1	1	1	1
Eucampia zoodiacus				1		1			1	1	1	1
Grammatophora sp.												
Hemialus sp.										1	1	1
Lauderia annulata												
Leptocylindrus danicus				1	1	1	1	1	1			1
Leptocylindrus minimus	1			1	1	1	1	1	1	1	1	1
Licmophora sp.												
Melosira sp.												
Navicula sp.				1	1	1						
Nitzschioid sp.				1	1	1		1	1		1	1
Pleurosigma/ Gyrosigma sp.												
Rhizosolenia setigera	1			1	1	1	1	1	1	1	1	1
Rhizosolenia sp. (blunt)												
Rhizosolenia sp. (pointy)												
Rhizosolenia stolterfothii				1	1	1		1	1	1		1
Skeletonema costatum	1		1		1	1		1				1
Stephanopyxis sp.												
Thalassionema sp.		1			1	1	1		1	1		1
Thalassiosira sp.	1	1	1	1	1	1	1	1	1	2	2	1

Table 65 : Dinoflagellates in Cypre Bay samples.

date	11-Jun			18-Jun			25-Jun			03-Jul			11-Jul			16-Jul			22-Jul			31-Jul			07-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.											1						1													
Amphidinium sp.							1												1	1	1							1		
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus													1																	
Ceratium lineatum					1																									
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																												1	1	
Cochlodinium sp.		1																												
Dinophysioid sp.								2				1	1							1				1	1			2		
Gonyaulacoid sp.					1		1																					1		
Gymnodinioid sp.	3	4	2	3	3	3	3	3	3	3	3	3	4	5	2	3	1	1	2	4	2	3	1	1	3	3	1	6	4	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2	1	1	3	3	1	2	3	3	2	2	1	1	1	1	1	2		1	1	1								2	1
Heterocapsa triquetra		1		1	1		1																		1					
Noctiluca scintillans											1	1																		
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile							1				1											1			1	1			1	1
Prorocentrum micans																												5	2	
Prorocentrum sp.																														
Protoperidinioid sp.	2			2	1		2	2	2	4	2	2	1			2		1	1	2	1	1	2	1	2	2	1			
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo														1															1	

Table 65 cont'd

date	20-Aug			27-Aug			05-Sep			10-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
Alexandrium sp.						1						
Amphidinium sp.					1							
Ceratium divericatum												
Ceratium furca												
Ceratium fusus					1							
Ceratium lineatum	1				1	1					1	
Ceratium pentagonum												
Ceratium sp.												
Cochlodinium polykrikoides				1	1		1			1		
Cochlodinium sp.												
Dinophysioid sp.					1	1			1	1		
Gonyaulacoid sp.				2								
Gymnodinioid sp.	2	1	1	7	5	5	3	2	4	1	1	
Gymnodinium galatheanum												
Gyrodinium spirale-type		1	1	2	2	1				1		
Heterocapsa triquetra	1				1					1		
Noctiluca scintillans		1									1	
Noctilucoid sp.												
Oxyrrhis marina												
Oxyphysis oxytoxoides					1							
Polykrikos sp.												
Prorocentrum gracile	1			1	1	1		1		1	1	
Prorocentrum micans												
Prorocentrum sp.												
Protoperidinioid sp.	2	1	2	5	7	4	5	1	1	7	1	2
Pyrocystis lunula												
Raphidophytes												
Heterosigma akashiwo				1								

Table 66 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Cypre Bay samples.

date	11-Jun			18-Jun			25-Jun			03-Jul			11-Jul			16-Jul			22-Jul			31-Jul			07-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1		1	1	1	1	1	1			1								1										
Dinobryon balticum																														
Ebria tripartita	1		1													1				1										
Euglenoid																									1					
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	3	4	2	3	3	4	4	3	2	4	3	3	3	3	3	4	4	3	3	3	4	3	3	5	5	3	2	2
Zooplankton																														
Appendicularian																														
Ciliate	5	3	2	2	1	2	3		1	1	1	2	1	1	1	1	1	1	4	3	1	1	2		3	1	1	3	1	2
Copepod																														
Nauplius										1			1											1						
Pluteus																														
Rotifer																														
Tintinnid	2	2		1			2	1					1											1						
Zoea																														
other																														
Dominant Species/Group																														
name	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros debilis*	*Skeletonema costatum*	*Chaetoceros debilis*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Eucampia zoodiacus*	*Ditylum brightwellii*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	50	100	40	620	1020	618	4200	3100	1500	900	260	200	680	624	400	80	480	280	400	1200	600	60	120	30	180	40	50	1800	6400	5400
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	101	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101	100
Diatoms	70	70	70	77	70	73	85	85	83	85	80	75	70	78	85	82	85	87	80	80	87	85	90	88	65	76	93	85	90	92
Dinoflagellates	15	15	25	20	28	25	10	13	14	11	18	21	26	20	13	14	12	10	16	14	10	13	7	9	20	20	5	10	8	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Other Flagellates	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	5	1	1	1	1	1
Zooplankton	13	12	4	2	1	1	4	1	2	3	1	3	3	1	1	3	2	2	3	3	2	1	2	2	10	3	1	4	1	2
Biomass	3.0	3.0	3.0	3.5	4.0	3.5	4.0	4.0	3.5	3.5	3.0	3.0	3.0	3.0	2.5	3.0	4.0	3.5	4.0	4.5	4.0	3.0	3.5	2.5	3.0	3.0	2.5	4.0	4.0	3.5

Table 66 cont'd

date	20-Aug			27-Aug			05-Sep			10-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates												
Cryptomonads												
Dictyocha speculum		1					1			1	1	
Dinobryon balticum												
Ebria tripartita							1		1			
Euglenoid	1									1		
Phaeocystis pouchetii												
Radiolarian												
unid. Nanoflagellates	5	4	2	5	5	5	4	4	1	2	1	2
Zooplankton												
Appendicularian												
Ciliate	3	2		7	7	4	4	1	1			
Copepod												
Nauplius												
Pluteus												
Rotifer												
Tintinnid										1		
Zoea												
other												
Dominant Species/Group												
name	*Prorocentrum gracile*	dinoflagellates	dinoflagellates	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Eucampia zoodiacus*
count (cells/mL)	20	20	4	4500	4700	4800	25	25	20	105	75	300
% constituent	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	89	30	40	73	60	62	84	93	93	75	80	95
Dinoflagellates	8	59	55	17	30	30	10	5	5	22	19	4
Raphidophytes	0	0	0	1	0	0	0	0	0	0	0	0
Other Flagellates	1	1	5	3	2	2	1	1	1	1	1	1
Zooplankton	2	10	0	6	8	6	5	1	1	2	0	0
Biomass	2.0	1.5	1.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	2.5

Table 67 : Diatoms in Warn Bay samples.

date	11-Jun			18-Jun			25-Jun			03-Jul			11-Jul			16-Jul			22-Jul			31-Jul			07-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.					1		2	1	2																					
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	2	2	4	10	9	3	5	6	7	3	3	2				2	2	1	4	2	2	3	3	2	1			3	1	1
Corethron hystrix																												1	1	
Coscinodiscus sp.																						1		1						
Cylindrotheca closterium					1	1		1	1		1	1																	1	
Dactylisolen sp.																														
Detonula pumila		1																												
Ditylum brightwellii				1	1		1	1	1	1	1	1					1	1	1	1	1	1	1	1	1	1	1	1	1	1
Eucampia zoodiacus				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1		1				1	1	1
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1
Leptocylindrus minimus																													1	1
Licmophora sp.																												1		
Melosira sp.																												1	1	
Navicula sp.		1																												
Nitzschioid sp.	1	1		1	2	2	1	1	1		1										1			1	1	1	1	1	1	2
Pleurosigma/ Gyrosigma sp.									1										1											1
Rhizosolenia setigera																						1		1						
Rhizosolenia sp. (pointy)				1	1				1	1									1		1									
Rhizosolenia sp. (blunt)					1	1		1											1		1									
Rhizosolenia stolterfothii				1	1				1		1	1	1	1		1	1	1	1	1	1	1	1	1						
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1				1	1	1	1	1	1	1	1		1	1	1	1	1	1
Stephanopyxis sp.						1														1										
Thalassionema sp.								1	1		1	1																1	1	1
Thalassiosira sp.	1	1	1	1	2	2	1	2	1	1	2	1				1	1	1	1	1		1	1		1	1	1	1	1	1

Table 67 cont'd

date	20-Aug			27-Aug			05-Sep			10-Sep			17-Sep			24-Sep			01-Oct			08-Oct			15-Oct			22-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.							1	1		3		3		3	1	1	3	1				3	1		3	1	3			
Corethron hystrix																														
Coscinodiscus sp.								1																						
Cylindrotheca closterium											1																			
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii				1	1		1	1	1	1	1	1	1		1	1	1					1	1				1			1
Eucampia zoodiacus					1	1																1								
Grammatophora sp.																														
Hemiaulus sp.																			1		1	1		1						
Lauderia annulata																														
Leptocylindrus danicus				1	1		1	1		1	1	1	1			1	1	1				1								
Leptocylindrus minimus				1	1	1	1	1	1	1	1	1				1			1											
Licmophora sp.																														
Melosira sp.																														
Navicula sp.				1			1	1				1																		
Nitzschioid sp.			1				1	1			1		1	2	1	1	1			2	1	1								
Pleurosigma/ Gyrosigma sp.					1		1																							
Rhizosolenia setigera				1	1		1	1	1	1	1	1	1	1	1	1	1	1		1		1	1							
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)				1			1							1		1														
Rhizosolenia stolterfothii				1	1		1	1	1	1	1	1	1			1	1	1		1			1	1						
Skeletonema costatum		1	1				1		1	1	1	1	1			1	1	1			1	1	1	1	1	1	1		1	
Stephanopyxis sp.																														
Thalassionema sp.					1			1			1				1											1				
Thalassiosira sp.			2	2	1		1	1	1	2	2		1	1	1	1	1	1	1		1		1	1	2	1	1			1

Table 67 cont'd

date	29-Oct			07-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms												
Achnanthes sp.												
Amphiprora/ Tropidoneis												
Asterionella japonica												
Bacteriastrum sp.												
Biddulphia sp.												
Campylosira/Plagiogramma												
Cerautalina sp.												
Chaetoceros concavicorne												
Chaetoceros convolutus												
Chaetoceros sp.				1			1					
Corethron hystrix												
Coscinodiscus sp.			1									
Cylindrotheca closterium												
Dactylisolen sp.												
Detonula pumila												
Ditylum brightwellii								1				
Eucampia zoodiacus	1											
Grammatophora sp.												
Hemiaulus sp.												
Lauderia annulata												
Leptocylindrus danicus												
Leptocylindrus minimus												
Licmophora sp.												
Melosira sp.	1									1		
Navicula sp.												
Nitzschioid sp.												
Pleurosigma/ Gyrosigma sp.												
Rhizosolenia setigera												
Rhizosolenia sp. (pointy)												
Rhizosolenia sp. (blunt)												
Rhizosolenia stolterfothii												
Skeletonema costatum	1			1	1	1	1	1	1			
Stephanopyxis sp.												
Thalassionema sp.												
Thalassiosira sp.		1		1	1		1				1	

Table 68 : Dinoflagellates in Warn Bay samples.

date	11-Jun			18-Jun			25-Jun			03-Jul			11-Jul			16-Jul			22-Jul			31-Jul			07-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.							1											1	1		1	1								
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.		1																												
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.				2				2	1		1		2									1	1							
Gonyaulacoid sp.				1																										
Gymnodinioid sp.	3	4	2	4	4		5	6	2	3	4	3	3	4	2	4	1	1	2	2	1	2	1	1	3	2	1	3	6	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1		3			1	1		2	2	3	3	1		1	1		1	1	1			1	1			1	1	2
Heterocapsa triquetra				1	1			1					1									1	1		1					
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile				1			1		1																1	1		1	1	
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	1	2	1	2	2	1	3	2	2	5	4	3	2	1	1	1	3	1	2	3	1	2	1	2	2	1		4	4	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																													1	1

Table 68 cont'd

date	20-Aug			27-Aug			05-Sep			10-Sep			17-Sep			24-Sep			01-Oct			08-Oct			15-Oct			22-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																1														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus															1															
Ceratium lineatum																	1					1					1			
Ceratium sp.																														
Cochlodinium polykrikoides				1			1						1		1	1	1	1	1	1	1	1				1	1	1	1	1
Cochlodinium sp.								1																						
Dinophysioid sp.													1			1			1			2								
Gonyaulacoid sp.							1																							
Gymnodinioid sp.	2	2	1		1	1	8	2	1	2	3	3	3	1	1	1	1		2	1	2	3	2	1	1		1		1	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1		1			2	1			2		1	1					1								1			
Heterocapsa triquetra																														
Noctiluca scintillans							1																					1	1	
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile			1	1												1	1											1		
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	1		5	1		7	2		6	3	2		1		1	1		3	2	1				2	1	1			1
Pyrocystis lunula																				1										
Raphidophytes																														
Heterosigma akashiwo							1									1														

Table 68 cont'd

date	29-Oct			07-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
Alexandrium sp.			1									
Amphidinium sp.												
Ceratium divericatum												
Ceratium furca	1	1	1									
Ceratium fusus												
Ceratium lineatum			1									
Ceratium sp.												
Cochlodinium polykrikoides							1					
Cochlodinium sp.												
Dinophysioid sp.												
Gonyaulacoid sp.	1											
Gymnodinioid sp.	2	1	2	1	1	1	1					
Gymnodinium galatheanum												
Gyrodinium spirale-type				1			1	1	1			
Heterocapsa triquetra										1		
Noctiluca scintillans			1		1							
Noctilucoid sp.												
Oxyrrhis marina												
Oxytoxum sp.												
Polykrikos sp.												
Prorocentrum gracile												
Prorocentrum micans	1	1	1	1	1	1	1	1		1		
Prorocentrum sp.												
Protoperidinioid sp.	1	1		1								
Pyrocystis lunula												
Raphidophytes												
Heterosigma akashiwo												

Table 69 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Warn Bay samples.

date	11-Jun			18-Jun			25-Jun			03-Jul			11-Jul			16-Jul			22-Jul			31-Jul			07-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1	1	1	1	1	1	1	1	1			1					1	1	1										
Dinobryon balticum																														
Ebria tripartita				1												1													1	
Euglenoid		1																												
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	3	4	2	2	3	3	4	3	3	4	3	4	3	5	3	3	5	3	3	3	2	4	4	3	2	3	3
Zooplankton																														
Amoeba																														
Appendicularian				1								1																		
Bipinnaria																														
Ciliate	4	3	3	5		1	1	5	2	1	2	1	2	2	1	2	2	2	4	3	1		2	1	3	1	1	4	5	4
Copepod			1																											
Fungus															1															
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid					1														1			1			1				1	1
Zoea																														
other																														
Dominant Species/Group																														
name	*Pseudo nitzschia sp.*	*Pseudo nitzschia sp.*	*Thalassiosira nordenskioeld*	*Eucampia zoodiacus*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Skeletonema costatum*	*Skeletonema costatum*	*Eucampia zoodicus*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	25	90	54	400	850	280	1800	2800	3000	180	100	40	400	160	40	80	340	220	600	1000	300	100	440	160	930	420	140	2300	3200	1200
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	95	100	100	100	100	100	100	100	100	100	100	100	100	100	101	101
Diatoms	65	75	80	70	85	97	80	77	86	75	80	75	60	75	80	80	83	90	85	90	93	80	87	88	69	78	90	92	90	92
Dinoflagellates	19	18	14	25	11	1	18	16	11	22	17	21	36	22	12	15	12	5	10	7	5	18	10	10	25	20	8	4	5	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Other Flagellates	6	2	2	1	2	1	1	1	1	2	1	1	2	1	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1
Zooplankton	10	5	4	4	2	1	1	6	2	1	2	3	2	2	2	3	4	3	4	2	1	1	2	1	5	1	1	3	4	2
Biomass	2.5	3.0	3.0	4.0	3.5	2.0	4.0	4.0	4.0	3.5	4.0	3.5	2.5	2.0	2.0	3.0	4.0	3.5	4.0	4.5	4.0	3.5	3.5	2.5	3.0	2.5	2.0	4.5	4.5	4.0

Table 69 cont'd

date	20-Aug			27-Aug			05-Sep			10-Sep			17-Sep			24-Sep			01-Oct			08-Oct			15-Oct			22-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1	1					1	1	1														1		1	1	1	1	1	
Dinobryon balticum																														
Ebria tripartita			1				1																							
Euglenoid							1																							
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	2	3	2	2	2	2	4	3	2	3	4	2	3	4	2	3	5	3	4	3	4	5	4	3	3	2	3	3	5	2
Zooplankton																														
Amoeba																											1			
Appendicularian																														
Bipinnaria																														
Ciliate	4	1		2		1	8	3	1	3	5		1			2	1		1	2	1	2			1	1	2	1		
Copepod																														
Fungus																														
Nauplius							1						1			1														
Pluteus																														
Rotifer																														
Tintinnid							1																							
Zoea																														
other																														
Dominant Species/Group																														
name	ciliates	dinoflagellates	diatoms	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Rhizosolenia setigera*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Hemiaulus sinensis*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	dinoflagellates	dinoflagellates	dinoflagellates
count (cells/mL)	20	15	20	10200	6800	420	10000	70	1300	23000	10000	6500	76	40	35	120	75	30	~30	~15	~10	300	100	50	40	80	20	3	4	4
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	5	88	87	95	91	55	91	94	79	81	90	67	90	94	57	68	95	50	70	60	70	90	95	85	88	80	0	20	30
Dinoflagellates	40	78	10	10	4	5	26	4	2	18	10	9	30	9	5	40	30	4	48	27	38	27	9	4	10	8	14	80	70	60
Raphidophytes	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	2	2	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	2	10	10	10
Zooplankton	55	15	0	2	0	3	15	3	2	2	8	0	2	0	0	2	1	0	1	2	1	2	0	0	2	2	4	10	0	0
Biomass	1.5	1.0	1.5	4.0	3.5	2.5	3.0	3.5	2.0	3.5	3.5	3.0	3.5	2.5	2.0	3.5	3.0	2.0	3.0	2.5	2.0	3.5	2.5	1.5	3.0	2.5	2.5	1.0	1.0	1.0

Table 69 cont'd

date	29-Oct			07-Nov			12-Nov			19-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates												
Cryptomonads												
Dictyocha speculum												
Dinobryon balticum												
Ebria tripartita												
Euglenoid												
Phaeocystis pouchetii												
Radiolarian												
unid. Nanoflagellates	4	3	4	3	5	5	4	5	3	3	5	4
Zooplankton												
Amoeba												
Appendicularian												
Bipinnaria												
Ciliate	1	2	2	2	1		2	1	1		1	1
Copepod												
Fungus												
Nauplius	1											
Pluteus												
Rotifer												
Tintinnid				1								
Zoea												
other												
Dominant Species/Group												
name	*Ceratium furca*	dinoflagellates	*Ceratium furca*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Prorocentrum micans*	*Thalassiosira* sp.	ciliates
count (cells/mL)	4	~5	3	3000	150	100	400	500	100	3	1	1
% constituent	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	10	5	10	70	62	70	50	70	60	0	25	0
Dinoflagellates	70	60	70	20	30	25	30	20	20	70	0	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	10	10	2	3	5	5	5	10	30	60	80
Zooplankton	10	25	10	8	5	0	15	5	10	0	15	20
Biomass	1.5	1.0	2.0	3.5	2.0	1.5	3.0	2.5	1.5	1.0	1.0	1.0

Table 70 : Diatoms in McCalls site samples.

date	28-May			05-Jun			11-Jun			18-Jun			25-Jun			16-Jul			23-Jul			07-Aug			13-Aug			20-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																				1										
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus															1			1		1	1									
Chaetoceros sp.							1		2		1	1	3	3	3	3	2		2	3	1	1	1		1	1		1		1
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium								1		1	1	1													1					1
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii													1	1			1		1	1	1		1					1	1	1
Eucampia zoodiacus															1	1	1	1	1	1	1	1	1	1				1	1	
Grammatophora sp.				1																										
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus							1							1			1				1		1					1	1	1
Leptocylindrus minimus							1																		1	1		1	1	1
Licmophora sp.																				1										
Melosira sp.			1																											
Navicula sp.			1				1																							
Nitzschioid sp.				1	1	1	1					1	1	1	1							1	1	1	1	1	1		1	
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																													1	
Rhizosolenia sp. (pointy)													1							1										
Rhizosolenia sp. (blunt)					1		1		1			1																		
Rhizosolenia stolterfothii								1								1	1	1	1	1	1								1	
Skeletonema costatum	1	1	1		1	1	1	1	1		1		1	1	1					1	1		1		1	1	1			1
Stephanopyxis sp.																														
Thalassionema sp.			1			1								1		1							1				1		1	
Thalassiosira sp.					1	1			1			1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	2

Table 70 cont'd

date	27-Aug			05-Sep			10-Sep			18-Sep			24-Sep			02-Oct			09-Oct			23-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																								
Achnanthes sp.																								
Amphiproral Tropidoneis								1																
Asterionella japonica																								
Bacteriastrum sp.																								
Biddulphia sp.																								
Campylosiral Plagiogramma																								
Cerautalina sp.																								
Chaetoceros concavicorne																								
Chaetoceros convolutus																								
Chaetoceros sp.			1	1		1		1		2	2		1	1	1	3			3	2	2			
Corethron hystrix												1												
Coscinodiscus sp.																								
Cylindrotheca closterium										1	1	1												
Dactylisolen sp.																								
Detonula pumila																								
Ditylum brightwellii		1	1	1	1	1		1			1	1		1	1			1	1	1				
Eucampia zoodiacus		1		1	1	1					1													
Grammatophora sp.																								
Hemialus sp.																								
Lauderia annulata																								
Leptocylindrus danicus	1	1	1	1	1	1				1	1		1	1	1	1		1	1	1				
Leptocylindrus minimus	1	1	1	1	1	1				1	1	1	1	1	1	1	1	1	1	1	1			
Licmophora sp.																								
Melosira sp.																								
Navicula sp.																								
Nitzschioid sp.					1					1	1	1	1	1	1			1						
Pleurosigma/ Gyrosigma sp.				1								1			1									
Rhizosolenia setigera	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Rhizosolenia sp. (pointy)																								
Rhizosolenia sp. (blunt)		1						1		1	1	1					1	1						
Rhizosolenia stolterfothii	1	1		1	1	1				1	1			1	1			1						
Skeletonema costatum				1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1			
Stephanopyxis sp.																								
Thalassionema sp.								1	1			1		1	1		1	1	1					
Thalassiosira sp.		1	2					1	1	1	1	1	1	1	1		1	1		1			1	1

Table 71 : Dinoflagellates in McCalls site samples.

date	28-May			05-Jun			11-Jun			18-Jun			25-Jun			16-Jul			23-Jul			07-Aug			13-Aug			20-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus		1																											1	
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																												1		
Cochlodinium sp.																														
Dinophysioid sp.				1				1						2			1	1		1	1	1				1	1		1	1
Gonyaulacoid sp.										1																				
Gymnodinioid sp.	1	1	1	4	2	1	4	3	2	3	2	2	1	4	2	2	8	3	1	5	2	4	2	2	4	5	2	7	7	5
Gymnodinium galatheanum																														
Gyrodinium spirale-type								1			1												1	1	1			2	3	2
Heterocapsa triquetra				1			1			1			1															1		
Noctiluca scintillans								1								1	1					1	1						1	
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.														1																
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.										1		1		1																
Protopendinioid sp.	1		1	1	3		3	1		2			2	2	1	2	3	2	2	1			1		1	1	1	6	5	1
Pyrocystis lunula																													1	
Raphidophytes																														
Heterosigma akashiwo																						1	1		1	1	1	1	1	1

Table 71 cont'd

date	27-Aug			05-Sep			10-Sep			18-Sep			24-Sep			02-Oct			09-Oct			23-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																								
Alexandrium sp.				1												1	1							
Amphidinium sp.		1									2						1							
Ceratium divericatum																								
Ceratium furca																								
Ceratium fusus		1												1						1				
Ceratium lineatum																								
Ceratium pentagonum																								
Ceratium sp.																								
Cochlodinium polykrikoides	1	1												1										
Cochlodinium sp.																								
Dinophysioid sp.	1	1								1				1		1			1					
Gonyaulacoid sp.																								
Gymnodinioid sp.	4	6	4	3	5	3	2	2	2	6	7	5	1	3	1	2	4	2	3	2	1	1	3	2
Gymnodinium galatheanum																								
Gyrodinium spirale1	2	2	1	2	2			2	1	1	2					3	2	1					1	
Heterocapsa triquetra			1																					
Noctiluca scintillans	1		1		1						1				1		1	1	1	1			1	
Noctilucoid sp.																								
Oxyrrhis marina																								
Oxytoxum sp.																								
Polykrikos sp.																								
Prorocentrum gracile							1																	
Prorocentrum micans																	1							
Prorocentrum sp.												1												
Protoperidinioid sp.	4	8	3	6	5	2	1	2	1	2	3	2	2	1	1	3	5	1						
Pyrocystis lunula								1			1		1					1						
Raphidophytes																								
Heterosigma akashiwo		1	1		1																			

Table 72 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in McCalls site samples.

date	28-May			05-Jun			11-Jun			18-Jun			25-Jun			16-Jul			23-Jul			07-Aug			13-Aug			20-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1	1	1	1	1	1		1		1	1			1	1				1						1		1
Dinobryon balticum																		1	1	1								1		
Ebria tripartita																				1										
Euglenoid							1			1																				
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	5	4	3	5	4	3	3	3	3	2	3	3	3	3	2	3	4	3	3	3	3	3	3	4	4	4	3	5	5	4
Zooplankton																														
Appendicularian																														
Ciliate	1	2	1	5	5	3	4	3	2	2	1	1	2		1	1	2	2	1	3	1	2	2	1	3	5	3	5	4	1
Copepod																														
Nauplius																					1									1
Pluteus																														
Rotifer															1		1		1	1	1							1		
Tintinnid	1					1																								
Zoea																														
other																														
Dominant Species/Group																														
name	nanoflagellate sp.	ciliate spp.	mixed diatoms	*Dictyocha speculum*	*Thalassiosira nordenskioeldii*	*Skeletonema costatum*	*Skeletonema costatum*	*Gymnodinium spp.*	*Skeletonema costatum*	*Protoperidinium spp.*	*Gymnodinium spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Pseudonitzschia sp.*	*Chaetoceros spp.*	*Eucampia zoodiacus*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Eucampia zoodiacus*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*
count (cells/mL)	640	10	30	8	10	50	60	54	40	58	22	28	80	360	160	290	560	140	100	80	60	80	50	20	190	700	550	2300	1050	600
% constituent	100	100	100	100	100	100	100	100	100	100	100	98	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	5	10	75	10	25	35	40	35	35	2	10	55	83	61	81	60	70	80	80	71	87	63	70	80	29	10	24	34	54	64
Dinoflagellates	10	20	10	30	25	30	30	40	30	86	83	40	10	35	15	35	20	15	16	20	10	30	25	18	30	24	25	45	30	30
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	30	40	35	<1	10	2
Other Flagellates	75	20	10	30	25	15	3	3	10	2	5	1	2	4	1	2	2	1	2	4	1	1	1	1	1	1	1	1	1	2
Zooplankton	10	50	5	30	25	20	27	22	25	10	2	2	5	0	3	3	8	4	2	5	2	4	4	1	10	25	15	20	5	2
Biomass	1.0	1.0	1.5	1.5	2.0	2.0	2.0	2.0	1.5	1.5	1.5	2.0	1.5	3.0	2.5	2.5	4.0	3.0	2.5	3.5	3.0	2.5	2.5	2.0	2.5	3.5	3.0	3.5	3.5	3.0

Table 72 cont'd

date	27-Aug			05-Sep			10-Sep			18-Sep			24-Sep			02-Oct			09-Oct			23-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																								
Cryptomonads																								
Dictyocha speculum						1		1		1	1	1	1	1	1		1			1				
Dinobryon balticum																								
Ebria tripartita			1				1	1							1									
Euglenoid																								
Phaeocystis pouchetii																								
Radiolarian																								
unid. Nanoflagellates	4	4	5	5	5	5	3	4	4	5	5	3	4	4	4	5	4	3	3	4	2	6	4	3
Zooplankton																								
Appendicularian																	1							
Ciliate	5	4	2	6	4	3	3	2	1	5	4	5	2	1	2	5	5	3	2	1	1	2	2	
Copepod																								
Nauplius					1																			
Pluteus																								
Rotifer											1													
Tintinnid								1	1	3	2								1	1				
Zoeal																								
other		1						1																
Dominant Species/Group																								
name	*Leptocylindrus minimus*	dinoflagellates	dinoflagellates	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Leptocylindrus minimus*	*Rhizosolenia setigera*	*Leptocylindrus minimus*	diatoms	*Dityium brightwelli*	*Dityium brightwelli*	*Skeletonema costatum*	ciliates	*Gymnodinium spp.*	*Gymnodinium spp.*
count (cells/mL)	3500	800	530	3800	6500	2000	20	30	10	450	290	380	200	60	550	40	100	~100	25	30	15	2	6	3
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	69	5	40	65	70	80	60	56	60	80	75	83	85	75	82	55	20	50	80	75	90	0	10	10
Dinoflagellates	20	61	47	20	15	10	35	40	37	10	15	10	12	20	10	35	55	30	15	20	7	30	55	70
Raphidophytes	0	2	3	0	<1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	2	5	3	3	3	1	1	1	2	2	1	1	3	6	2	5	2	1	2	1	10	5	20
Zooplankton	10	30	5	12	12	7	4	3	2	8	8	6	2	2	2	8	20	18	4	3	2	60	30	0
Biomass	3.5	3.5	3.0	3.5	3.5	3.5	2.0	3.0	1.5	4.0	3.5	3.5	3.0	3.0	2.5	3.5	2.5	2.0	3.5	3.5	2.0	1.0	1.0	1.0

Table 73 : Diatoms in Amai Inlet samples.

date	16-May			23-May			30-May			07-Jun			14-Jun			21-Jun			27-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																											1			
Asterionella japonica																														
Bacteriastrum sp.											1	1																		
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne											1										1									
Chaetoceros convolutus												1																		
Chaetoceros sp.	1		1		1					1	5	4	2	1	1				4		2	2	3	2	1				1	
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium													1						1	1	1						1			
Dactylisolen sp.																														
Detonula pumila											1	1																		
Ditylum brightwellii																									1					
Eucampia zoodiacus																			1	1	1					1			1	1
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus			1								1	1							1	1	1		1		1	1	1		1	1
Leptocylindrus minimus																														
Licmophora sp.														1																
Melosira sp.	1																													
Navicula sp.																			1				1							
Nitzschioid sp.											1	2	1	1	1		1		1	1	1			1	1			1		
Pleurosigmal Gyrosigma sp.	1																							1						
Rhizosolenia setigera																														
Rhizosolenia sp.(pointy)				1	1	1								1	1	1	1	1	1	1	1			1	1	1				1
Rhizosolenia sp.(blunt)						1					1	1																		
Rhizosolenia stolterfothii											1	1													1	1			1	
Skeletonema costatum				1	1		1			1	1	1	1						1		1	1		1	1	1				
Stephanopyxis sp.																														
Thalassionema sp.																									1					
Thalassiosira sp.	1				1	1		1			2	2		1	1				2	1	1	1	1	1	1			1	1	1

Table 73 cont'd

date	26-Jul			09-Aug			16-Aug			23-Aug			30-Aug			13-Sep			21-Sep			27-Sep			04-Oct			11-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.		1	1			1																1								
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium																														
Dactyliolen sp.				1		1																								
Detonula pumila																														
Ditylum brightwellii				1	1			1	1		1	1																		
Eucampia zoodiacus	1	1	1		1	1				1	1	1																		
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1	1																								
Leptocylindrus minimus				1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Licmophora sp.																														
Melosira sp.													1																	
Navicula sp.																														
Nitzschioid sp.		1	1	1	1	1																								
Pleurosigma/ Gyrosigma sp.							1																							
Rhizosolenia setigera																						1								
Rhizosolenia sp.(pointy)	2	2	2																											
Rhizosolenia sp.(blunt)					1																	1								
Rhizosolenia stolterfothii	1	1	1																											
Skeletonema costatum																						1								
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.	1				1	1	1	1	1								1				1		1							

Table 73 cont'd

date	18-Oct			25-Oct			01-Nov			08-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms												
Achnanthes sp.												
Amphiproral Tropidoneis												
Asterionella japonica												
Bacteriastrum sp.												
Biddulphia sp.												
Campylosira/Plagiogramma												
Cerautalina sp.												
Chaetoceros concavicorne												
Chaetoceros convolutus												
Chaetoceros sp.												
Corethron hystrix												
Coscinodiscus sp.												
Cylindrotheca closterium												
Dactylisolen sp.												
Detonula pumila												
Ditylum brightwellii			1									
Eucampia zoodiacus												
Grammatophora sp.												
Hemialus sp.												
Lauderia annulata												
Leptocylindrus danicus												
Leptocylindrus minimus	1	1	1									
Licmophora sp.												
Melosira sp.		1										
Navicula sp.												
Nitzschioid sp.												
Pleurosigma/ Gyrosigma sp.												
Rhizosolenia setigera												
Rhizosolenia sp.(pointy)												
Rhizosolenia sp.(blunt)												
Rhizosolenia stolterfothii												
Skeletonema costatum												
Stephanopyxis sp.												
Thalassioneme sp.												
Thalassiosira sp.	1		1									

Table 74 : Dinoflagellates in Amai Inlet samples.

date	16-May			23-May			30-May			07-Jun			14-Jun			21-Jun			27-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																						1		1	1		1			
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																				1						1				
Ceratium lineatum						1						1		1									1						1	
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.		1	1		1		2	1					2	1		1		1			1			1						
Diplopsalis sp.																														
Gonyaulacoid sp.																						1	1	2		1				1
Gymnodinioid sp.	1	1			1		2	2	2	4	6	4	8	6	4	2	1		5	5	5	5	7	7	1	3	4	1	1	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type				2							2	1	2	1					1	1	1			2		2	1			
Heterocapsa triquetra	1			1	1		1		1				1			1	1		1	1	1	1	1	1				1	1	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																						1								
Oxyphysis oxytoxoides																														
Polykrikos sp.													1									1	1			1				
Prorocentrum gracile							1	1	1		1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Prorocentrum micans													1	1		1						1		1	1	1		1	1	1
Prorocentrum sp.																1		1												
Protoperidinioid sp.					1			1		1	1	3	2	3	1	1			4	6	3	3	1	3		4	2	2	3	4
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 74 cont'd

date	26-Jul			09-Aug			16-Aug			23-Aug			30-Aug			13-Sep			21-Sep			27-Sep			04-Oct			11-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.													1		1								1	1	1			1		
Amphidinium sp.		1				1							1			1			1			1	1		1		1	1		
Ceratium divericatum																														
Ceratium furca																			1						1					
Ceratium fusus			1							1		1			1		1						1				1		1	1
Ceratium lineatum										1													1	1	1			1	1	1
Ceratium sp.																													1	
Cochlodinium polykrikoides																1									1			1	1	
Cochlodinium sp.																														
Dinophysioid sp.	1	1		1	1	1	3	1		1	2	1	1	1		2		1	1	1	1		1		2				1	
Diplopsalis sp.				1	1	1																1	1							
Gonyaulacoid sp.																			1						2	1	1	1	1	1
Gymnodinioid sp.	4	5	5	4	3	2	5	1	1	4	4	4	7	8	6	10	5	3	8	7	4	5	6	3	12	10	3	4	3	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1	1	1	1	1				1	1	1	1	1	1	2			3	1		3	2	2	3	3	2	1	2	1
Heterocapsa triquetra	1		1									1	1		1	1			1	1	1	1	1	1	1			1		
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides				1		1	1	1	1	1			1			1		1							1					
Polykrikos sp.											1					1														
Prorocentrum gracile	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1		1			1	1	1	1	1	1
Prorocentrum micans			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1
Prorocentrum sp.																1	1	1				1	1							
Protoperidinioid sp.	4	4	2	3	4	3	2	3	2	5	4	4	5	5	4	3	1	1	6	2		7	5	3	5	5	5	2	1	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo				1	1		1	1	1	1	1	1	1	1	1				1	1		1		1	1	1	1	1		

Table 74 cont'd

date	18-Oct			25-Oct			01-Nov			08-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
Alexandrium sp.												
Amphidinium sp.												
Ceratium divericatum												
Ceratium furca												
Ceratium fusus			1									
Ceratium lineatum	1	1	1				1			1		
Ceratium sp.												
Cochlodinium polykrikoides												
Cochlodinium sp.												
Dinophysioid sp.		1					1		1	1		
Diplopsalis sp.												
Gonyaulacoid sp.	1	1	1				1		1	1	1	1
Gymnodinioid sp.	5	3	4	2		1				1	1	
Gymnodinium galatheanum												
Gyrodinium spirale-type	1	1	1		1							
Heterocapsa triquetra				1	1							
Noctiluca scintillans	1											
Noctilucoid sp.												
Oxyrrhis marina												
Oxyphysis oxytoxoides												
Polykrikos sp.												
Prorocentrum gracile		1		1								
Prorocentrum micans	1	1	1				1	1	1	1	1	1
Prorocentrum sp.												
Protoperidinioid sp.	2		1		2	1	1			1		
Pyrocystis lunula												
Raphidophytes												
Heterosigma akashiwo												

Table 75 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Amai Inlet samples.

date	16-May			23-May			30-May			07-Jun			14-Jun			21-Jun			27-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	0m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum				1	1	1	1		1		1	1	1	1	1								1	1	1	1				1
Dinobryon balticum																														
Ebria tripartita										1	1											1								
Euglenoid							1	1		1	1	1							1							1		1		
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	6	5	6	5	4	3	3	3	4	4	3	4	2	3	3	3	3	4	5	5	4	2	4	2	2	5	3	4	4	4
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	1			1	2	2	2	3	2	6	5	4	4	3	2	2	1		7	7	5	1	2	1	2	5	3		1	1
Copepod							1			1			1											1						
Nauplius							1				2																			
Pluteus																														
Rotifer	1																									1				
Tintinnid	1	1	1		1								2										1	1			1		1	
Zoea																														
other													1										1				1			
Dominant Species/Group																														
name	diatoms	dinoflagellates	*Leptocylindrus danicus*	*Skeletonema costatum*	*Skeletonema costatum*	*Rhizosolenia alata*	ciliates	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Gymnodinium spp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Skeletonema costatum*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Eucampia zoodiacus*	*Eucampia zoodiacus*
count (cells/mL)	12	5	9	500	140	2	40	60	30	80	250	320	40	200	120	200	30	10	240	300	150	120	120	80	300	140	80	60	240	140
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101	100	100	100	100	100	100	100	100	100	100	100	95
Diatoms	45	20	40	55	40	50	8	4	0	8	70	65	10	50	66	5	10	10	15	10	20	10	15	24	84	35	25	2	50	50
Dinoflagellates	10	35	20	10	35	15	39	50	60	45	20	25	76	45	30	91	87	90	70	75	69	87	80	70	10	50	65	93	45	42
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	25	25	10	10	5	3	1	3	2	5	5	4	2	1	1	1	1	5	5	3	2	2	3	1	2	1	5	1	2
Zooplankton	40	20	15	25	15	30	50	45	37	45	5	5	10	3	3	3	2	0	10	10	8	1	3	3	5	13	9	0	4	1
Biomass	1.5	1.0	1.0	2.0	1.5	1.5	2.5	2.5	1.5	2.5	3.5	3.5	3.0	3.5	3.5	2.5	1.5	1.0	4.0	4.0	3.5	3.0	3.5	3.5	2.5	2.5	2.0	2.0	3.0	2.5

Table 75 cont'd

date	26-Jul			09-Aug			16-Aug			23-Aug			30-Aug			13-Sep			21-Sep			27-Sep			04-Oct			11-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum					1	1			1							1		1	1	1			1	1						
Dinobryon balticum																														
Ebria tripartita						1		1								1		1	1	1	1	1	1	1						
Euglenoid				1	1	1	1														1				1					
Phaeocystis pouchetii																														
Radiolarian																								1						
unid. Nanoflagellates	3	4	4	3	3	5	3	2	3	3	4	4	3	3	4	6	5	4	5	4	4	5	6	4	7	7	5	6	5	4
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	2	1	3	1	2	1	3	1		3	4	2	5	5	4	5	3	1	7	4	3	4	6	4	10	4	4	2	1	1
Copepod											1																			
Nauplius										1																				
Pluteus																														
Rotifer																														
Tintinnid				1			1		1	1	1	1	1	1					3	1		1		1	1					
Zoea																														
other										1																				
Dominant Species/Group																														
name	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Leptocylindrus danicus*	*Prorocentrum gracile*	*Leptocylindrus danicus*	*Prorocentrum gracile*	*Prorocentrum micans*	*Prorocentrum micans*	*Prorocentrum micans*	*Ceratium fusus*	*Prorocentrum micans*	*Prorocentrum micans*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Prorocentrum gracile*	*Gonyaulax digitale*	*Gonyaulax digitale*
count (cells/mL)	1100	1200	800	320	160	100	280	30	20	20	50	50	8000	500	1400	34000	7800	4500	70000	5000	2000	20000	24000	5000	37000	7000	1000	250	150	90
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	67	68	65	40	45	58	2	24	30	5	30	30	8	5	5	40	60	50	40	37	20	35	50	60	45	35	30	15	10	8
Dinoflagellates	30	30	32	55	50	35	63	70	68	60	38	45	46	38	42	50	37	45	45	50	55	55	40	30	35	45	50	82	88	90
Raphidophytes	0	0	0	1	<1	0	30	3	<1	9	6	10	40	35	40	0	0	0	1	<1	0	1	0	<1	10	5	5	<1	0	0
Other Flagellates	1	1	1	1	2	5	1	2	1	1	1	1	1	2	3	3	1	4	4	3	10	4	5	5	2	5	5	1	1	1
Zooplankton	2	1	2	3	3	2	4	1	1	25	25	14	5	20	10	7	2	1	10	10	15	5	5	5	8	10	10	2	1	1
Biomass	3.5	3.5	3.0	4.0	3.5	3.0	3.5	2.0	1.5	3.5	3.5	3.5	4.5	3.5	3.5	4.5	3.0	3.0	4.5	3.5	3.0	4.0	4.5	3.5	4.5	3.5	3.0	4.0	3.5	3.0

Table 75 cont'd

date	18-Oct			25-Oct			01-Nov			08-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates												
Cryptomonads												
Dictyocha speculum	1		1				1			1		
Dinobryon balticum												
Ebria tripartita	1											
Euglenoid												
Phaeocystis pouchetii												
Radiolarian												
unid. Nanoflagellates	4	3	3	3	4	4	5	4	3	4	5	4
Zooplankton												
Amoeba	1											
Appendicularian												
Ciliate	5	4	3	3	3	2	3	2	2	1	2	
Copepod												1
Nauplius								1				
Pluteus												
Rotifer												
Tintinnid	1			1								
Zoea												
other												
Dominant Species/Group												
name	*Gonyaulax digitale*	*Prorocentrum micans*	*Gonyaulax digitale*	ciliates	ciliates	*Protopendinium* sp.	*Prorocentrum micans*	*Prorocentrum micans*	*Prorocentrum micans*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*
count (cells/mL)	20	40	20	80	20	4	25	10	3	45	5	3
% constituent	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	8	10	10	0	0	0	0	0	0	0	0	0
Dinoflagellates	55	49	70	30	45	40	75	65	60	80	75	50
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	1	1	5	5	10	5	5	5	15	10	40
Zooplankton	35	40	19	65	50	50	20	30	35	5	15	10
Biomass	3.5	3.0	3.0	2.0	1.5	1.0	2.5	2.0	1.5	3.0	1.5	1.0

Table 76 : Diatoms in Coal Harbour samples.

date	19-May			24-May			31-May			7-Jun			14-Jun			21-Jun			28-Jun			5-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Ptagiogramma																														
Ceratulina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus										1					1															
Chaetoceros sp.					1	1	1	1		3	2	2	6	5	4	5	7	7	4	4	6	6	7	5	2	3	2	2	3	2
Corethron hystrix																														
Coscinodiscus sp.										1																				
Cylindrotheca closterium											1				1		1	1												
Dactyliosolen sp.																														
Detonula pumila										1								1			1		1	1						
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.						1																								
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																	1	1		1	1	1	1			1	1	1		
Leptocylindrus minimus																														
Licmophora sp.									1																					
Melosira sp.								1																						
Navicula sp.											1	1								1										
Nitzschioid sp.						1		1		2	1	1	1		1	1	1	1		1	1							1	1	1
Pleurosigma/ Gyrosigma sp.						1						1						1												
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)										1																				
Rhizosolenia sp. (blunt)																						1	1	1	1	1	1		1	1
Rhizosolenia stolterfothii																														
Skeletonema costatum				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Thalassionema sp.											1																	1		
Thalassiosira sp.				1		1		1	1	1	1	1						1			1		1	1	1	1	2		1	1

Table 76 cont'd

date	26-Jul			2-Aug			9-Aug			16-Aug			23-Aug			30-Aug			6-Sep			13-Sep			20-Sep			27-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.			1	1		1		1																		1				
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	2	5	6	7	5	4	5	5	5														1							
Corethron hystrix			1						1																					
Coscinodiscus sp.																		1												
Cylindrotheca closterium																1									1					
Dactyliosolen sp.																														
Detonula pumila	1	1	1																											
Ditylum brightwellii																														
Eucampia zoodiacus				1																										
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata				1		1																								
Leptocylindrus danicus							1							1					1	1		1	1							1
Leptocylindrus minimus																														1
Licmophora sp.																														
Melosira sp.																														
Navicula sp.																														
Nitzschioid sp.	1	1	1	1	1	1	1	1	1																		1			
Pleurosigma/ Gyrosigma sp.				1			1																							
Rhizosolenia setigera								1																						
Rhizosolenia sp. (pointy)				1																										
Rhizosolenia sp. (blunt)			1																											
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1	1	1	1	1	1								1								1	1				
Stephanopyxis sp.																														
Thalassionema sp.																														
Thalassiosira sp.	1	1	1	1	1	1			1			1		1	1			1												

Table 76 cont'd

date	4-Oct			18-Oct			1-Nov			8-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiprora/ Tropidoneis																					
Asterionella japonica																					
Bacteriastrum sp.																					
Biddulphia sp.																					
Campylosira/Plagiogramma																					
Cerautalina sp.																					
Chaetoceros concavicorne																					
Chaetoceros convolutus																					
Chaetoceros sp.																		1			
Corethron hystrix																					
Coscinodiscus sp.																					
Cylindrotheca closterium																					
Dactylisolen sp.																					
Detonula pumila																					
Ditylum brightwellii											1										
Eucampia zoodiacus																					
Grammatophora sp.																					
Hemialus sp.																					
Lauderia annulata																					
Leptocylindrus danicus																					
Leptocylindrus minimus																					
Licmophora sp.																					
Melosira sp.											1										
Navicula sp.		1																			
Nitzschioid sp.				1	1	1															
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera																					
Rhizosolenia sp. (pointy)																					
Rhizosolenia sp. (blunt)																					
Rhizosolenia stolterfothii																					
Skeletonema costatum			1																		
Stephanopyxis sp.																					
Thalassionema sp.							1														
Thalassiosira sp.								1	1	1	2	1									

Table 77 : Dinoflagellates in Coal Harbour samples.

date	19-May			24-May			31-May			7-Jun			14-Jun			21-Jun			28-Jun			5-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum								1																						
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	1				5	3		3	1	1	2	3	1	1	1	1	2	1	1	1	1	1	3	1	1	3	1	3	5	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1	1		2	2	2	2	3	1	2	1	1					3	2	1	1	1	1			1	1	1	2	1
Heterocapsa triquetra										1																				
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile											1																			
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.				1	2		3	2	1	1		1	1		1	1	1	2			1	1	1			1	1		3	2
Pyrocystis lunula																										1				
Raphidophytes																														
Heterosigma akashiwo																														

Table 77 cont'd

date	26-Jul			2-Aug			9-Aug			16-Aug			23-Aug			30-Aug			6-Sep			13-Sep			20-Sep			27-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.							1																							
Amphidinium sp.																1									1		1			
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum				1																		1	1							
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																1	1		1			1	1	1			1			
Cochlodinium sp.																														
Dinophysioid sp.			1	1		1								1								1		1						
Diplopsalis sp.																						1	1					1		
Gonyaulacoid sp.																									1			1		
Gymnodinioid sp.	4	4	2	3	2	1	3	4	3		2	1	2	4	3	2	3	2	2	1		6	3	4	4	2		3	4	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1		2	1	2		1						1		1	1		1			2	3	1	1	2			2	
Heterocapsa triquetra				1			1				1					1	1					1	1	1						
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																	1					1		1						
Polykrikos sp.																			1			1	1							
Prorocentrum gracile											1	1				1	1		1			1	1	1	1	1	1	1	1	
Prorocentrum micans																1														
Prorocentrum sp.																1	1		1	1	1	1	1	1	1	1	1	1	1	
Protoperidinioid sp.	1	2		1	2	1	2	3	1		1	2	2	2	2	5	2		3	1		4	5	2	3	1	1			
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo													1			1			1	1	1	1			1	1				

Table 77 cont'd

date	4-Oct			18-Oct			1-Nov			8-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.	1																				
Amphidinium sp.																					
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus																					
Ceratium lineatum				1																	
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium polykrikoides	1			1																	
Cochlodinium sp.																					
Dinophysioid sp.				1	1					1	1										
Diplopsalis sp.																					
Gonyaulacoid sp.		1					1		1	1	1	1									
Gymnodinioid sp.	4	1	2	1	1	1	1	2	1		1	1									
Gymnodinium galatheanum																					
Gyrodinium spirale-type		1													1						
Heterocapsa triquetra	1																				
Noctiluca scintillans																					
Noctilucoid sp.																					
Oxyrrhis marina																					
Oxyphysis oxytoxoides																					
Polykrikos sp.																					
Prorocentrum gracile	1	1			1	1					1										
Prorocentrum micans	1															1					
Prorocentrum sp.	1																				
Protoperidinioid sp.	4	2		1	1																
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo	1																				

Table 78 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Coal Harbour samples.

date	19-May			24-May			31-May			7-Jun			14-Jun			21-Jun			28-Jun			5-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1					1	1	1	1	1	1	1	1	1	1	1			1	1	1		1				1	1	1	
Dinobryon balticum																														
Ebria tripartita										1		1		1			1													
Euglenoid										1	1																			
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	5	3	4	4	3	4	4	3	3	4	2	3	3	3	3	3	2	3	3	3	3	2	4	2	4	3	2	4
Zooplankton																														
Appendicularian									1							1														
Ciliate	1	1	1	2	5	5	2	2	1	2	1	1	4	5	4	2	4	4	1	1	1	3	1	1		1	2	3	1	1
Copepod														1																
Nauplius																		1												
Pluteus																														
Rotifer																														
Tintinnid									1																					
Zoea																														
other																								1						
Dominant Species/Group																														
name	ciliates	ciliates	ciliates	ciliates	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira nordenskioeldi*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*
count (cells/mL)	30	30	20	20	50	60	2600	2200	1300	1160	1540	80	650	840	700	480	640	3300	680	720	1600	500	2500	660	100	320	1000	450	300	100
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	0	0	40	5	40	84	65	73	80	80	75	80	80	84	78	72	61	88	91	89	79	90	94	94	80	86	70	60	65
Dinoflagellates	10	10	15	5	40	25	10	30	20	14	16	20	5	4	4	10	11	20	8	5	8	15	8	2	4	15	10	20	35	31
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	30	30	35	5	5	5	3	2	3	4	3	4	5	2	2	2	2	1	2	2	1	1	1	1	2	2	4	1	1	1
Zooplankton	60	60	50	50	50	30	3	3	4	2	1	1	10	14	10	10	15	18	2	2	2	5	1	3	0	3	0	9	4	3
Biomass	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.5	2.5	3.0	3.0	3.0	2.5	2.5	2.5	3.0	3.5	4.0	2.5	2.5	3.5	3.5	4.0	3.5	1.0	2.5	3.0	4.0	4.0	3.0

Table 78 cont'd

date	26-Jul			2-Aug			9-Aug			16-Aug			23-Aug			30-Aug			6-Sep			13-Sep			20-Sep			27-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum		1												1	1				1											
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid																1						1								
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	4	2	4	4	3	3	4		4	3	3	4	4	6	4	2	4	3	3	2	3	4	6	2	4	4	4	4
Zooplankton																														
Appendicularian																														
Ciliate				1	1	1	1	3	1		1	1	2	2	1	5	5	3	7	8	3	6	5	3	2	2	1	6	6	3
Copepod																														
Nauplius				1																										
Pluteus																														
Rotifer				1																		1		1						
Tintinnid	1												1	1		1	2		1				2		1					
Zoea																														
other																														
Dominant Species/Group																														
name	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	no sample	*Gymnodinium spp.*	*Protoperidinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Cochlodinium polykrikoides*	dinoflagellates	ciliates	*Prorocentrum minimus*	ciliates	ciliates	*Prorocentrum minimum*	*Prorocentrum minimum*	*Prorocentrum gracile*	*Prorocentrum minimum*	*Prorocentrum minimum*	*Prorocentrum gracile*	dinoflagellates	*Prorocentrum minimum*	ciliates
count (cells/mL)	1100	2000	500	1400	330	950	980	1600	460		4	10	20	60	~5	20	60	10	380	80	~10	1200	190	80	100	30	5	~25	~20	~8
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	78	85	90	75	80	85	75	70	76	37	0	25	0	16	20	1	1	30	5	5	0	1	5	0	30	20	2	0	0	15
Dinoflagellates	20	13	7	22	18	13	23	25	20	40	79	45	58	60	55	54	59	25	55	35	25	83	83	95	49	70	83	50	45	30
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	10	10	30	1	0	0	1	1	0	0	0	0
Other Flagellates	1	1	1	1	1	1	1	1	1	2	1	1	2	4	5	5	10	5	5	5	10	5	2	1	5	2	5	15	20	20
Zooplankton	1	1	2	2	1	1	1	4	3	21	20	29	40	20	20	15	30	40	25	45	35	10	10	4	15	7	10	35	35	35
Biomass	3.5	4.0	3.5	3.5	3.0	3.5	3.5	4.0	3.5	2.3	1.0	1.0	1.0	1.5	1.0	3.0	2.0	1.5	2.5	2.0	1.5	4.0	3.0	3.0	2.0	2.0	1.5	2.0	1.5	1.5

Table 7B cont'd

date	4-Oct			18-Oct			1-Nov			8-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads																					
Dictyocha speculum							1		1						1	1	1		1	1	
Dinobryon balticum																					
Ebria tripartita																					
Euglenoid																					
Phaeocystis pouchetii																					
Radiolarian																					
unid. Nanoflagellates	5	3	2	5	5	4	3	4	3	4	5	4	3	5	4	5	3	4	4	3	4
Zooplankton																					
Appendicularian																					
Ciliate	4	5	2	4	3	4	2	1		2	3	1	1	1	3	1	2	1		1	1
Copepod	1						1														
Nauplius																					
Pluteus																					
Rotifer																					
Tintinnid	1																				
Zoea																					
other																					
Dominant Species/Group																					
name	dinoflagellates	dinoflagellates	dinoflagellates	ciliates	*Prorocentrum gracile*	ciliates	*Gonyaulax digitale*	*Gymnodinium* spp.	*Gonyaulax digitale*	*Gonyaulax digitale*	*Prorocentrum gracile*	*Gonyaulax digitale*	ciliates	ciliates	ciliates	*Dictyocha speculum*	ciliates	*Chaetoceros decipiens*	*Dictyocha speculum*	*Dictyocha speculum*	ciliates
count (cells/mL)	~30	~15	~8	30	20	15	30	45	25	40	10	20	40	20	10	30	30	90	30	10	10
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	10	25	4	30	5	10	20	20	10	35	15	0	0	0	0	0	50	0	0	0
Dinoflagellates	65	50	35	35	45	20	40	50	70	30	45	45	0	0	15	15	0	0	0	0	0
Raphidophytes	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	10	1	1	1	20	10	10	5	2	15	45	60	10	70	65	20	100	65	70
Zooplankton	28	35	30	60	24	74	30	20	0	55	18	25	55	40	75	15	35	30	0	35	30
Biomass	2.0	1.5	1.0	2.0	2.5	1.5	1.5	1.0	1.0	1.5	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Table 79 : Diatoms in Thorpe Point samples.

date	17-May			24-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.			1																											
Campylosira/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																						1								
Chaetoceros sp.				1	1		2	3	2	2	1	2	3	3	2	2	7	5	2	2	2	5	6	4	3	4	5	4	4	3
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium							1										1													
Dactyliosolen sp.																														
Detonula pumila																	1	1			1		1							
Ditylum brightwellii																												1		
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata								1																						
Leptocylindrus danicus																1	1	1		1	1		1	1		1	1		1	
Leptocylindrus minimus																														
Licmophora sp.																	1													
Melosira sp.																														
Navicula sp.												1	1																	
Nitzschioid sp.				1		1	2	1	1	1	1	1				1	1	1				1	1		1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.												1																		1
Rhizosolenia setigera																														1
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)										1	1										1	1	1	1	1	1	1	1	1	
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Striatella sp.																														
Thalassionema sp.																														
Thalassiosira sp.				1						1	1	1		1	1	1	1	1			1	2	2	2	2	2	1	1	1	1

Table 79 cont'd

date	26-Jul			02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.			1				1	1	1																					
Campylosiral/Plagiogramma																														
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	3	2	2	3	2	2	5	5	4										1			1	1							
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila			1																											
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus			1						1										1	1					1					1
Leptocylindrus minimus																					1									
Licmophora sp.																														
Melosira sp.																														
Navicula sp.																	1					1								
Nitzschioid sp.	1	1	1		1		1	1	1										1									1		1
Pleurosigma/ Gyrosigma sp.								1	1																					
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)			1																											
Rhizosolenia sp. (blunt)			1																											
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1	1	1	1	1	1								1		1							1	1			
Stephanopyxis sp.																														
Striatella sp.																														
Thalassionema sp.																						1								
Thalassiosira sp.	1	1	1	1			1	1	1	1		1				1		1								1				1

Table 79 cont'd

date	04-Oct			11-Oct			18-Oct			25-Oct			01-Nov			08-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																											
Achnanthes sp.																											
Amphiproral Tropidoneis																											
Asterionella japonica																											
Bacteriastrum sp.																											
Biddulphia sp.													1														
Campylosira/Plagiogramma																											
Cerautalina sp.																											
Chaetoceros concavicorne																											
Chaetoceros convolutus																											
Chaetoceros sp.																											
Corethron hystrix																											
Coscinodiscus sp.																											
Cylindrotheca closterium																											
Dactyliosolen sp.																											
Detonula pumila																											
Ditylum brightwellii																											
Eucampia zoodiacus																											
Grammatophora sp.																											
Hemialus sp.																											
Lauderia annulata																											
Leptocylindrus danicus	1				1	1																					
Leptocylindrus minimus																											
Licmophora sp.	1																										
Melosira sp.	1																										
Navicula sp.																								1			
Nitzschioid sp.								1	1																		
Pleurosigma/ Gyrosigma sp.																											
Rhizosolenia setigera																											
Rhizosolenia sp. (pointy)																											
Rhizosolenia sp. (blunt)																											
Rhizosolenia stolterfothii																											
Skeletonema costatum																											
Stephanopyxis sp.																											
Striatella sp.												1															
Thalassionema sp.																											
Thalassiosira sp.											1				1										1		

Table 80 : Dinoflagellates in Thorpe Point samples.

date	17-May			24-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																									1					
Dinophysioid sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.				6	6	3	1	2	2	3	2	1	1	2	1	1		3	1	2	1	2	3	2	1	3	3	4	3	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1	1				1		2	1	1	1		1				2				2	1		1	2	1	1	1	
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile									1																					
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.						1	1	2	1	2	1	2	1	1			1	3		1				1	1	2	2	1	1	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 80 cont'd

date	26-Jul			02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.			1												1															
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum															1	1	1									1				
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																1						1			1					
Dinophysioid sp.											1				1							1				1				
Gonyaulacoid sp.																														
Gymnodinioid sp.	4	2	6	1	3	2	2	3	4	7	2	2	3	3	3	4	1	1	1	1	1	3	2		5	3	2	2	1	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1		2							1		1										1	1	1	1	2		2		
Heterocapsa triquetra							1			1									1			1								
Noctiluca scintillans							1																							
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.															1										1					
Prorocentrum gracile															1	1			1			1	1		1	1	1			
Prorocentrum micans																1			1	1	1	1	1	1	1		1	1	1	
Prorocentrum sp.																														
Protoperidinioid sp.	1		3				1		2	2	2	1		2	3	1	1		3	1	2	3	1		4	1		1		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																1	1		1	1	1									

Table 80 cont'd

date	04-Oct			11-Oct			18-Oct			25-Oct			01-Nov			08-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																											
Alexandrium sp.																											
Amphidinium sp.																											
Ceratium divericatum																											
Ceratium furca																											
Ceratium fusus																											
Ceratium lineatum		1				1		1					1														
Ceratium pentagonum																											
Ceratium sp.																											
Cochlodinium sp.																											
Cochlodinium polykrikoides	1			1	1																						
Dinophysioid sp.	1		1	1																							
Gonyaulacoid sp.	1			1	1	1	1	1	1	1			1			1			1								
Gymnodinioid sp.	4	2	2	2	2	2	1	1	1	2	1	2		1					1		1						
Gymnodinium galatheanum																											
Gyrodinium spirale-type	1	1	1			1		1	1								1		1				1				
Heterocapsa triquetra																											
Noctiluca scintillans																											
Noctilucoid sp.																											
Oxyrrhis marina																											
Oxyphysis oxytoxoides				1																							
Polykrikos sp.																											
Prorocentrum gracile		1		1		1																					
Prorocentrum micans										1																	
Prorocentrum sp.	1	1																									
Protoperidinioid sp.	3	3	1	2	3	1	1																				
Pyrocystis lunula																											
Raphidophytes																											
Heterosigma akashiwo																											

Table 81 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Thorpe Point samples.

date	17-May			24-May			31-May			07-Jun			14-Jun			21-Jun			28-Jun			05-Jul			12-Jul			19-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum					1	1		1			1	1	1	1													1			
Dinobryon balticum																														
Ebria tripartita										1	1	1					1													
Euglenoid																												1		
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	3	5	4	4	3	4	3	5	4	3	2	2	3	3	2	3	2	2	3	3	3	3	4	4	2	4	3	4	4
Zooplankton																														
Appendicularian																1														
Bipinnaria																														
Ciliate	1	1	1	7	6	4	3	3	2	1	1		4	2	1	3	2	1	1		2	3	1	1		1	2	2		1
Copepod																														
Fungus																														
Nauplius																2			1											
Pluteus																														
Rotifer																														
Tintinnid													1			2				1				1					1	
Zoea																													1	
other																														
Dominant Species/Group																														
name	ciliate sp.	ciliate sp.	ciliate sp.	*Skeletonema costatum*	ciliates	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonmea costatum*	*Skeletonmea costatum*	*Skeletonmea costatum*	*Chaetoceros spp*	*Chaetoceros spp*	*Chaetoceros spp*
count (cells/mL)	40	20	10	800	20	20	2800	3100	1700	1600	460	640	300	500	26	370	2420	2640	60	300	240	2800	4000	2800	540	3000	1500	1400	3000	700
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	5	5	5	50	30	30	80	80	75	65	75	65	83	69	92	70	89	83	90	90	90	90	93	93	90	80	75	60	75	85
Dinoflagellates	10	10	10	20	30	30	9	14	20	30	19	30	6	8	5	4	4	15	5	7	5	5	5	4	9	17	20	35	20	13
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	35	40	40	5	5	5	1	1	1	3	5	4	2	1	1	1	2	1	1	1	1	1	1	1	1	1	2	1	1	1
Zooplankton	50	45	45	25	35	35	10	5	4	2	1	1	10	3	2	25	5	1	4	2	4	4	1	2	0	2	3	4	4	1
Biomass	1.5	1.5	1.5	2.0	1.5	1.5	3.5	3.5	3.0	2.5	2.0	2.0	2.5	2.5	2.0	3.0	4.0	4.0	1.0	2.5	2.5	4.0	4.5	4.0	3.0	4.0	3.5	3.0	3.5	2.5

Table 81 cont'd

date	26-Jul			02-Aug			09-Aug			16-Aug			23-Aug			30-Aug			06-Sep			13-Sep			20-Sep			27-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum																														
Dinobryon balticum								1					1																	
Ebria tripartita																														
Euglenoid																														
Phaeocystis pouchetii															1															
Radiolarian																														
unid. Nanoflagellates	3	5	4	3	4	3	4	3	3	5	3	3	4	4	5	3	2	1	5	3	3	4	4	2	4	3	4	7	5	5
Zooplankton																														
Appendicularian																														
Bipinnaria																														
Ciliate	3	2	2	1	2		1	3	3	6	4	4		1	3	6	1	2	6	4	1	4	1	1	3	1	1	5		
Copepod																														
Fungus																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid																														
Zoea			1																											
other																			1											
Dominant Species/Group																														
name	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	dinoflagellates	ciliates	ciliates	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	dinoflagellates	*Ceratium lineatum*	ciliates	*Prorocentrum minimum*	ciliates	dinoflagellates	*Cochlodinium polykrikoides*	*Prorocentrum minimum*	*Prorocentrum minimum*	*Prorocentrum gracile*	*Gymnodinium spp.*	*Prorocentrum gracile*	"n" nanoflagellate	dinoflagellates	*Leptocylindrus danicus*
count (cells/mL)	480	180	800	1200	50	180	2500	2000	2000	40	10	10	~3	~5	~15	40	2	3	440	~10	~5	75	25	20	50	20	10	240	5	20
% constituent																														
Diatoms	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dinoflagellates	60	85	57	95	80	90	85	85	75	5	0	10	0	0	0	5	10	30	5	20	5	3	2	0	3	7	3	2	0	70
Raphidophytes	35	12	40	2	16	9	13	11	21	50	40	30	70	70	60	35	70	25	40	30	40	90	95	97	90	90	95	23	80	10
Other Flagellates	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	5	0	25	5	35	0	0	0	0	0	0	0	0	0
Zooplankton	1	1	1	1	1	1	1	1	1	5	5	5	30	10	10	10	5	10	5	5	10	1	1	1	1	1	1	40	20	20
Biomass	4	2	2	2	3	0	1	3	3	40	55	55	0	20	30	30	10	35	25	40	10	6	2	2	6	2	1	35	0	0
	3.0	2.5	3.5	3.5	2.0	2.5	4.0	4.0	4.0	2.0	1.5	1.5	1.0	1.0	1.5	2.0	1.5	1.0	3.0	1.5	1.0	3.5	2.5	1.5	3.0	2.5	1.5	2.0	1.0	1.0

Table 81 cont'd

date	04-Oct			11-Oct			18-Oct			25-Oct			01-Nov			08-Nov			15-Nov			22-Nov			29-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																											
Cryptomonads																											
Dictyocha speculum		1																									
Dinobryon balticum											1	1				1			1			1	1		1		1
Ebria tripartita																											
Euglenoid																											
Phaeocystis pouchetii																											
Radiolarian																											
unid. Nanoflagellates	5	3	3	4	3	4	4	3	5	5	3	4	5	5	3	3	3	2	5	5	4	4	4	3	5	4	5
Zooplankton																											
Appendicularian																											
Bipinnaria																											
Ciliate	7	3	2	1	2	1	3	2	1	1	1	1	2	2	1	2	2	2	1	1	1	2	1	1	1	1	2
Copepod																											
Fungus																											
Nauplius																											
Pluteus											1																
Rotifer																											
Tintinnid																											
Zoea	1												1														
other																											
Dominant Species/Group																											
name	*Mesodinium rubrum*	*Mesodinium rubrum*	dinoflagellates	*Cochlodinium polykrikoides*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gonyaulax digitale*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Gonyaulax digitale*	*Dictyocha speculum*	*Striatella sp.*	*Gonyaulax digitale*	ciliates	ciliates	ciliates	ciliates	ciliates	*Dictyocha speculum*	ciliates	ciliates	*Dictyocha speculum*	*Dictyocha speculum*	ciliates	*Thalassiosira sp.*	ciliates	ciliates
count (cells/mL)	35	~20	~5	15	90	30	6	30	10	2	3	2	5	4	2	10	5	2	8	1	2	6	3	3	2	1	4
% constituent																											
Diatoms	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Dinoflagellates	10	0	0	0	2	5	0	59	65	0	10	40	10	0	15	0	0	0	0	0	0	0	0	15	30	0	0
Raphidophytes	45	45	50	95	91	92	50	30	30	70	20	30	40	15	0	10	10	0	40	0	15	0	15	0	0	0	0
Other Flagellates	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zooplankton	2	5	20	1	2	1	1	1	1	10	40	20	10	10	15	20	30	60	50	85	55	65	55	35	40	75	50
Biomass	43	50	30	4	5	2	49	10	4	20	30	10	40	75	70	70	60	40	10	15	30	35	30	50	30	25	50
	2.5	1.5	1.0	2.0	2.5	2.0	1.5	2.5	1.5	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0

Table 82 : Diatoms in Koskimo Bay samples.

date	16-May			23-May			30-May			13-Jun			20-Jun			27-Jun			05-Jul			18-Jul			26-Jul			08-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerataulina sp.																						2	2	1	3	6	6		2	2
Chaetoceros concavicorne																2			1											
Chaetoceros convolutus						1	1	3		1	1	1																		
Chaetoceros sp.																														
Corethron hystrix						1																			1				1	
Coscinodiscus sp.																														
Cylindrotheca closterium																	1								1	1	1			1
Dactyliosolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																									1	1	1		1	1
Grammatophora sp.																			1											
Hemialus sp.																														
Lauderia annulata						1			1			1	1																	
Leptocylindrus danicus																														
Leptocylindrus minimus																	1								1	1			1	1
Licmophora sp.														1				1												
Melosira sp.										1	1	1		1		1		1	1	1	1									
Navicula sp.																									1	1	1			
Nitzschioid sp.										2	1	1													1		1			
Pleurosigma/ Gyrosigma sp.																			1	1	1									
Rhizosolenia setigera												1				1						1		1	1	1	1		1	1
Rhizosolenia sp. (pointy)										1									1	1		1	1	1						
Rhizosolenia sp. (blunt)											1					1	1													
Rhizosolenia stolterfothii							1																		1	1			1	1
Skeletonema costatum	1	1	1																2											
Stephanopyxis sp.																1		1												
Thalassionema sp.					1		1		1	1																				
Thalassiosira sp.																														

Table 82 cont'd

date	15-Aug			22-Aug			29-Aug			05-Sep			14-Sep			03-Oct			10-Oct			17-Oct			25-Oct			31-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.			1																											
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																						1	1	1						
Chaetoceros concavicorne	1																													
Chaetoceros convolutus																								1						
Chaetoceros sp.	3	4	3													1														
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium	1		1																					1						
Dactyliosolen sp.																														
Detonula pumila					1	1	1	1		1			1	1																
Ditylum brightwellii	1	1																												
Eucampia zoodiacus	1			1	1	1	1	1	1																					
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata				1						1	1	1																		
Leptocylindrus danicus							1	1																						
Leptocylindrus minimus																														
Licmophora sp.																1														
Melosira sp.							1		1																					
Navicula sp.				1	1																									
Nitzschioid sp.						1																								
Pleurosigma/ Gyrosigma sp.	1	1	1																											
Rhizosolenia setigera	1			1	1																	1								
Rhizosolenia sp. (pointy)																						1								
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1		1	1																								
Stephanopyxis sp.							1																							
Thalassionema sp.	2	2	2	1	1	2	1	1		1	1	1					1	1				1	2	1	2					
Thalassiosira sp.																														

Table 82 cont'd

date	07-Nov			14-Nov			22-Nov			28-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms												
Achnanthes sp.												
Amphiproral Tropidoneis												
Asterionella japonica												
Bacteriastrum sp.												
Biddulphia sp.												
Campylosira/Plagiogramma												
Cerautalina sp.												
Chaetoceros concavicorne												
Chaetoceros convolutus												
Chaetoceros sp.												
Corethron hystrix												
Coscinodiscus sp.												
Cylindrotheca closterium												
Dactylisolen sp.												
Detonula pumila												
Ditylum brightwellii												
Eucampia zoodiacus												
Grammatophora sp.				1								
Hemialus sp.												
Lauderia annulata												
Leptocylindrus danicus												
Leptocylindrus minimus												
Licmophora sp.												
Melosira sp.	1											
Navicula sp.												
Nitzschioid sp.												
Pleurosigma/ Gyrosigma sp.												
Rhizosolenia setigera												
Rhizosolenia sp. (pointy)												
Rhizosolenia sp. (blunt)												
Rhizosolenia stolterfothii												
Skeletonema costatum												
Stephanopyxis sp.												
Thalassionema sp.												
Thalassiosira sp.	1	1										

Table 83 : Dinoflagellates in Koskimo Bay samples.

date	16-May			23-May			30-May			13-Jun			20-Jun			27-Jun			05-Jul			18-Jul			26-Jul			08-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																									1					
Amphidinium sp.																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum													1												1		1			
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.								1			1																			
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.				1	1		3	2	1	4	4	3	1	2	1	1	1		1	2	1	1	3	1	6	5	3		2	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type				1	2	1	1	1	1	2									1	2		1	1		1	1				
Heterocapsa triquetra				1	1			1														1			1	1				
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Polykrikos sp.																														
Prorocentrum gracile																										1				
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.					1	1	3	3	1	2	3	1			1				2			1	1		4	1	1		1	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 83 cont'd

date	15-Aug			22-Aug			29-Aug			05-Sep			14-Sep			03-Oct			10-Oct			17-Oct			25-Oct			31-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.				1			1																							
Amphidinium sp.																														
Ceratium furca																			1											
Ceratium fusus				1		1								1					1		1			1						
Ceratium lineatum	1	1		1	1			1					1					1	1		1	1	1	1	1	1				
Ceratium sp.																						1								1
Cochlodinium polykrikoides	1	1	1										1	1						1				1	1			1		
Cochlodinium sp.																														
Dinophysioid sp.	1		1	1	1	1	1						2						2	1		1		2				1		
Diplopsalis sp.							1																							
Gonyaulacoid sp.																1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Gymnodinioid sp.	4	2	3	4	5	4	3	2	4	5	5	1	5	3	3	1		1	2	2	1	3	2	1	4	2	2	1	1	1
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1	1	1	1		1			1		1			1	1		1	1					1						
Heterocapsa triquetra	1	1	1	1			1	1		1																				
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyphysis oxytoxoides						1	1							1																
Oxyrrhis marina																														
Polykrikos sp.						1																								
Prorocentrum gracile				1	1	1	1	1	1	1			1	1	1															
Prorocentrum micans				1									1			1			1			1	1	1	1			1		
Prorocentrum minimum													1	1																
Prorocentrum sp.																										1	1			
Protoperidinioid sp.	4	2	2	3	4	3	5	3	1	5	1		1	1	1			1	1	2		3	1	1	1	1		1		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo							1	1		1	1	1																		

Table 83 cont'd

date	07-Nov			14-Nov			22-Nov			28-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
Alexandrium sp.												
Amphidinium sp.												
Ceratium furca												
Ceratium fusus												
Ceratium lineatum				1			1			1		
Ceratium sp.												
Cochlodinium polykrikoides												
Cochlodinium sp.												
Dinophysioid sp.												
Diplopsalis sp.												
Gonyaulacoid sp.	1			1	1	1				1		
Gymnodinioid sp.	1	1								1	1	
Gymnodinium galatheanum												
Gyrodinium spirale-type												
Heterocapsa triquetra												
Noctiluca scintillans												
Noctilucoid sp.												
Oxyphysis oxytoxoides												
Oxyrrhis marina												
Polykrikos sp.												
Prorocentrum gracile												
Prorocentrum micans	1					1		1		1		
Prorocentrum minimum												
Prorocentrum sp.												
Protoperidinioid sp.					1							
Pyrocystis lunula												
Raphidophytes												
Heterosigma akashiwo												

Table 84 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Koskimo Bay samples.

date	16-May			23-May			30-May			13-Jun			20-Jun			27-Jun			05-Jul			18-Jul			26-Jul			08-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum										1	1	1			1	1			1	1									1	1
Dinobryon balticum																														
Ebria tripartita														1	1										1					
Euglenoid																				1										
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	3	5	4	4	4	3	4	3	2	2	2	3	3	3	4	3	2	5	3	4	3	4	3	4	3		4	3
Zooplankton																														
Appendicularian																														
Ciliate				3	3	1	4	4	2	6	6	2	4	2	2	3	2		2	2	2	2	2	2	2	1	4		2	1
Copepod																														
Nauplius										2	1																			
Pluteus																														
Rotifer																														
Tintinnid				1	1	1	2			2		1			1			1		1					1	1				
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	ciliates	ciliates	*Chaetoceros spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	*Gymnodinium spp.*	ciliates	ciliates	*Pseudonitzschia sp.*	ciliates	diatoms	dinoflagellates	*Chaetoceros spp.*	*Skeletonema costatum*	tintinnid	*Skeletonema costatum*	*Skeletonema costatum*	diatoms	*Rhizosolenia stolterfothii*	*Chaetoceros spp*	*Rhizosolenia stolterfothii*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	no sample	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	2600	3000	2000	120	20	40	40	40	24	20	60	300	8	12	8	80	60	2	200	20	20	25	400	10	120	180	80		140	40
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	90	90	0	20	60	5	20	15	21	25	45	0	40	0	81	82	10	91	78	47	50	65	80	60	65	80	60	80	76
Dinoflagellates	0	0	0	30	30	20	50	40	45	35	36	30	20	30	50	4	2	0	5	15	20	40	30	10	37	32	16	36	15	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	10	10	5	2	1	1	1	1	4	4	5	5	6	25	5	1	40	1	3	3	1	1	1	1	1	1	1	2	2
Zooplankton	0	0	0	65	48	19	44	39	39	40	35	20	75	24	25	10	15	50	3	4	30	9	4	9	2	2	3	3	3	2
Biomass	1.0	1.0	1.0	1.5	1.5	2.0	2.0	3.0	2.5	2.5	2.5	3.0	1.0	1.0	1.0	1.5	1.0	1.0	2.0	1.5	1.0	1.0	2.5	1.0	3.0	3.0	2.5	3.0	2.5	2.0

Table 84 cont'd

date	15-Aug			22-Aug			29-Aug			05-Sep			14-Sep			03-Oct			10-Oct			17-Oct			25-Oct			31-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum	1		1			1	1			1						1	1	1	1		1				1			1		
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid										1	1	1																		
Phaeocystis pouchetii																														
Radiolarian								1																						
unid. Nanoflagellates	3	3	3	5	4	3	4	4	3	4	3	2	3	3	3	4	3	3	4	3	2	5	5	3	3	3	4	5	5	3
Zooplankton																														
Appendicularian					1																									
Ciliate	3	1	3	4	5	1	5	5	3	7	5	2	1	1	1	3	5	2	6	6	2	1		1	5	1	1	2	2	1
Copepod											1								1											
Nauplius																									2			1		
Pluteus																														
Rotifer																							1							
Tintinnid					1	1	1	1	1																					
Zoea																														
other					1																									
Dominant Species/Group																														
name	*Skeletonema costatum*	*Thalassiosira spp.*	*Skeletonema costatum*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Prorocentrum gracile*	*Ditylum brightwellii*	ciliates & tintinnids	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Leptocylindrus danicus*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Gymnodinium spp.*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*	*Gonyaulax digitale*
count (cells/mL)	520	400	450	2800	2300	2000	25	6	~20	3300	85	20	25	10	15	20	15	5	160	55	35	140	80	200	100	20	5	5	3	3
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	68	60	50	50	65	20	40	25	5	15	50	13	0	0	20	5	5	0	0	5	17	10	13	0	0	0	0	0	0
Dinoflagellates	35	30	35	39	35	30	35	34	32	5	5	5	85	98	96	40	45	65	64	60	82	80	88	85	60	93	85	70	55	80
Raphidophytes	0	0	0	0	0	0	20	4	0	83	68	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	1	1	1	5	2	3	2	2	3	1	1	1	10	15	10	1	1	3	1	1	1	5	2	5	5	15	10
Zooplankton	4	1	4	10	14	4	20	20	40	5	10	5	1	1	3	30	35	20	35	39	10	2	1	1	35	5	10	25	30	10
Biomass	3.0	3.0	3.0	4.0	4.0	3.5	2.5	2.5	1.5	3.5	2.5	2.0	2.5	2.0	1.5	2.0	2.0	1.5	3.5	3.0	2.5	3.5	3.0	3.5	2.5	1.5	1.0	2.0	1.0	1.5

Table 84 cont'd

date	07-Nov			14-Nov			22-Nov			28-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates												
Cryptomonads												
Dictyocha speculum							1	1				
Dinobryon balticum												
Ebria tripartita												
Euglenoid												
Phaeocystis pouchetii												
Radiolarian												
unid. Nanoflagellates	5	5	4	3	4	3	5	4	3	3	3	5
Zooplankton												
Appendicularian												
Ciliate	2	1	1	1	1	2	2	2	1	1	1	1
Copepod												
Nauplius												
Pluteus												
Rotifer												
Tintinnid												
Zoea												
other												
Dominant Species/Group												
name	ciliates	ciliates	ciliates	*Ceratium lineatum*	*Gonyaulax digitale*	*Gonyaulax digitale*	ciliates	*Prorocentrum micans*	ciliates	dinoflagellates	ciliates	ciliates
count (cells/mL)	6	3	2	3	2	2	20	3	5	4	3	1
% constituent	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	20	10	0	10	0	0	0	0	0	0	0	0
Dinoflagellates	30	10	0	70	50	40	20	40	0	50	15	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	20	60	10	30	30	20	15	45	15	45	80
Zooplankton	40	60	40	10	20	30	60	45	55	35	40	20
Biomass	1.5	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0

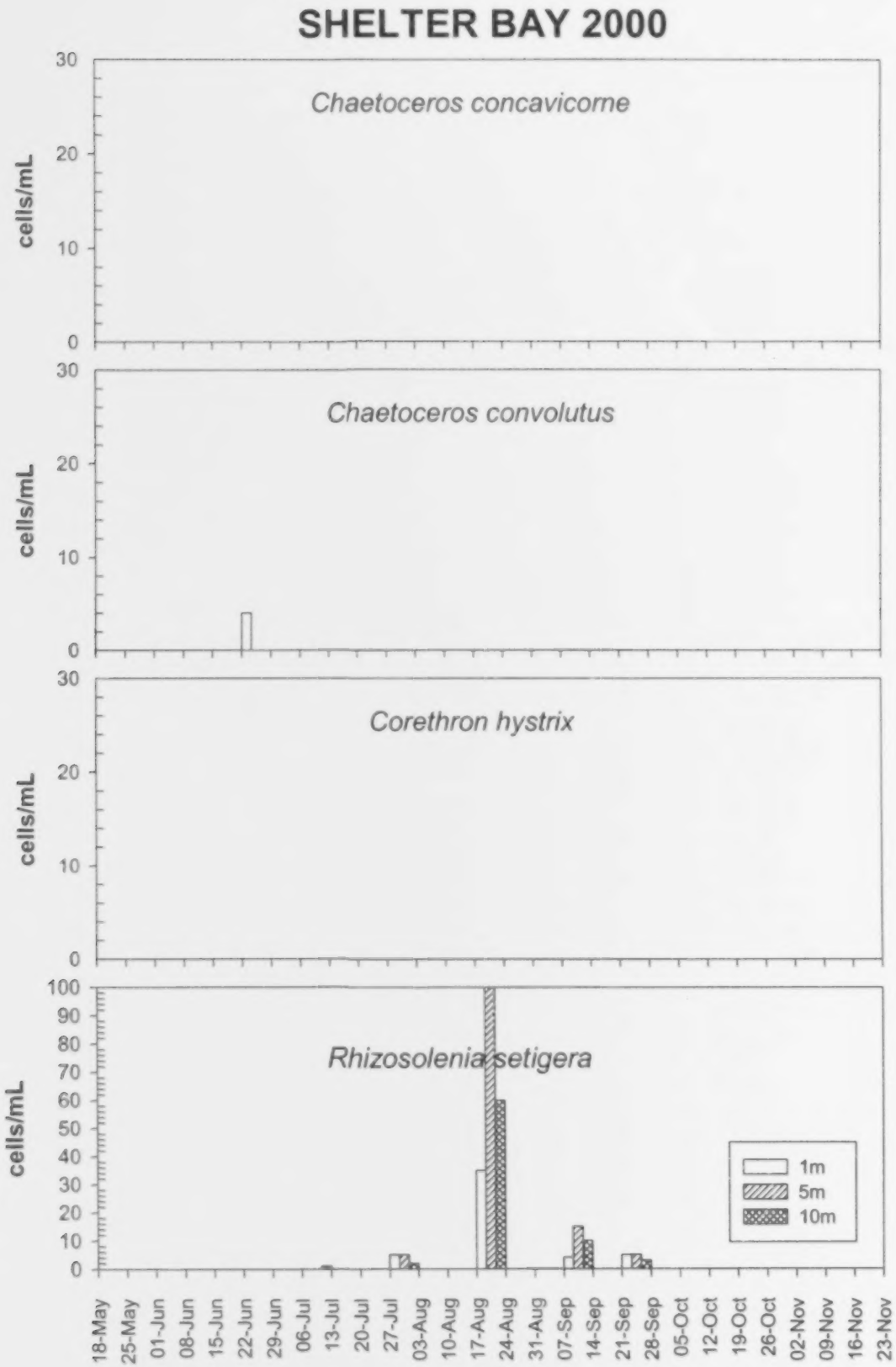

Figure 2: Harmful phytoplankton species in Shelter Bay samples.

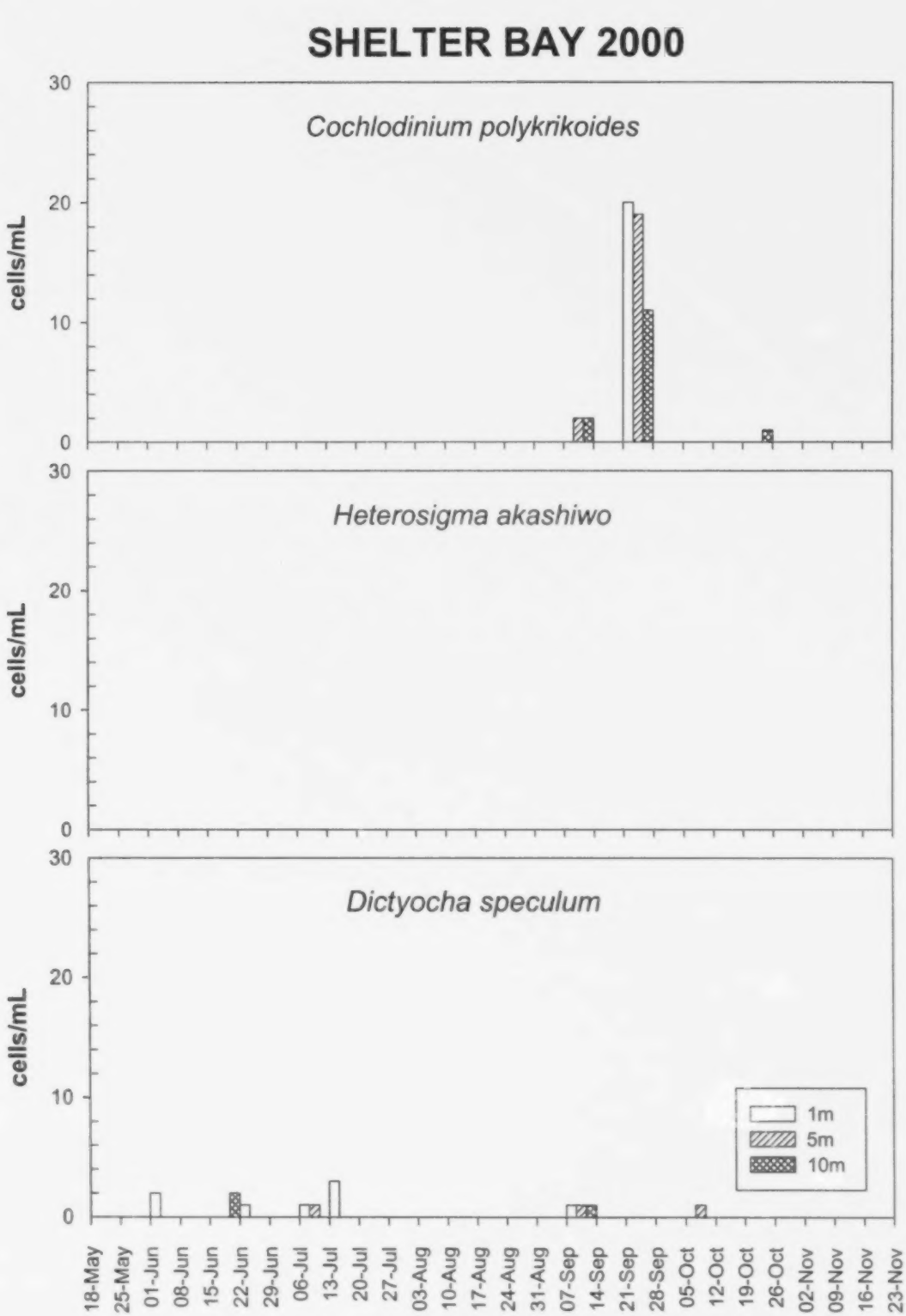

Figure 3: Harmful phytoplankton species in Shelter Bay samples.

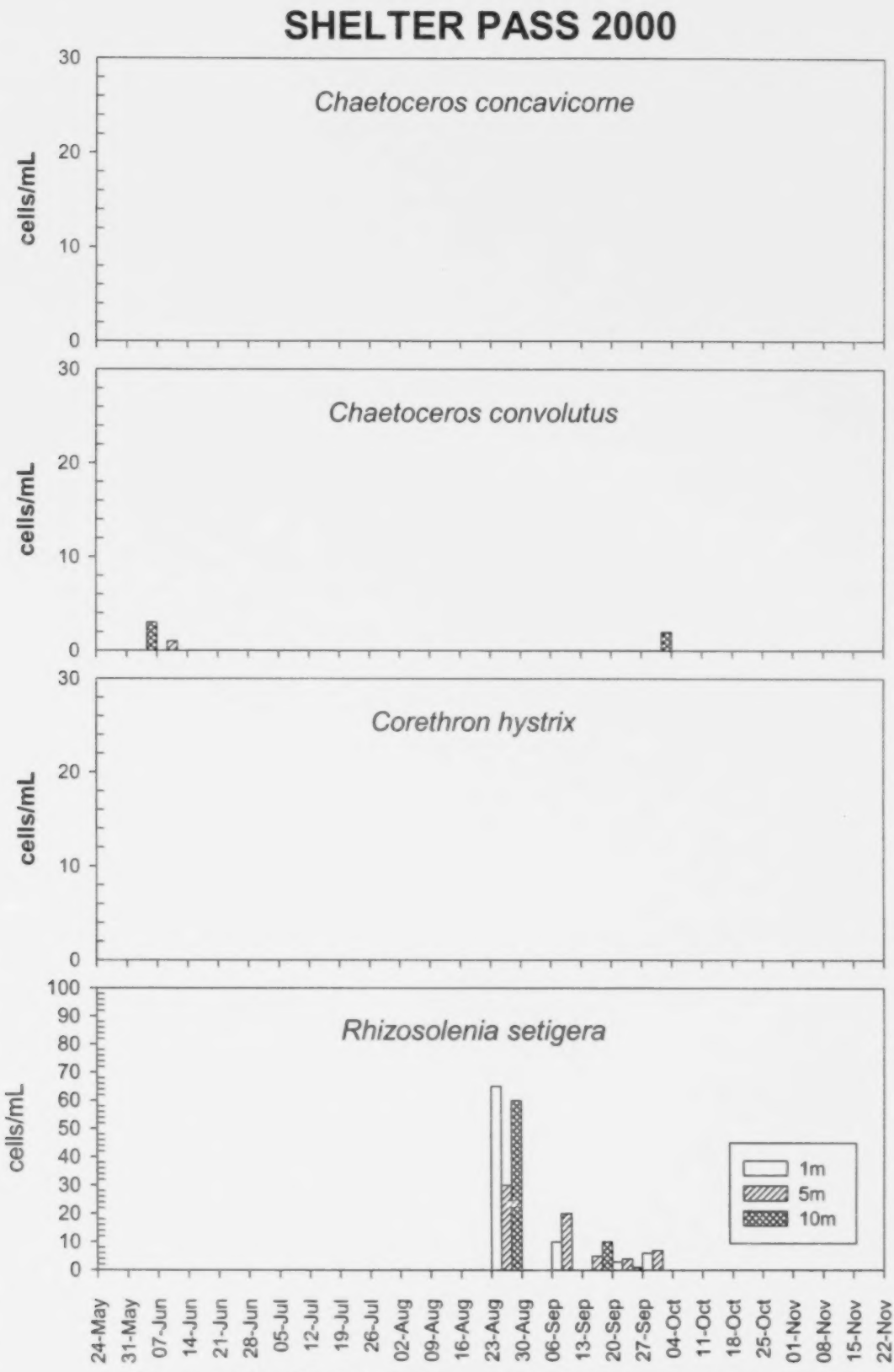

Figure 4: Harmful phytoplankton species in Shelter Pass samples.

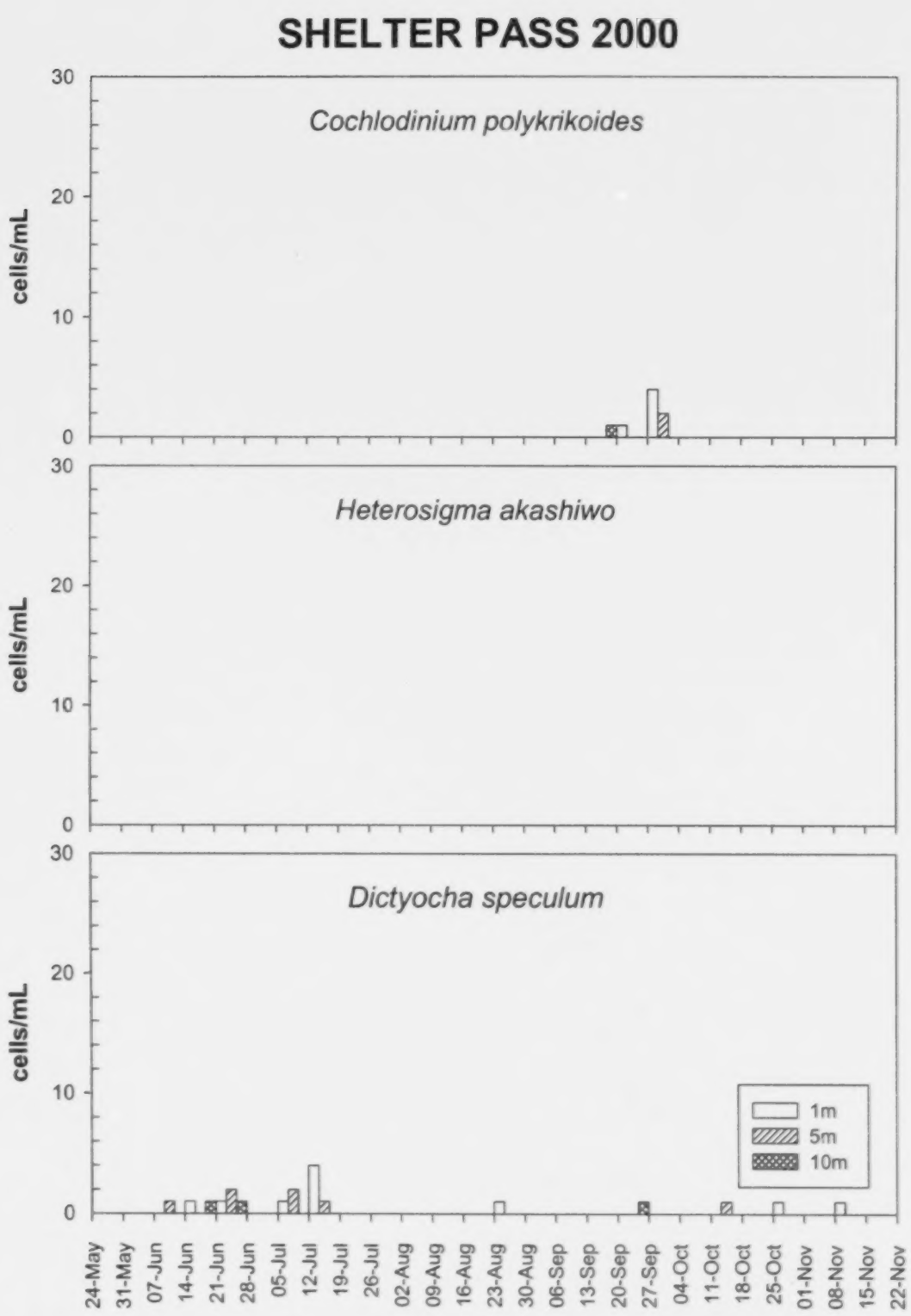

Figure 5: Harmful phytoplankton species in Shelter Pass samples.

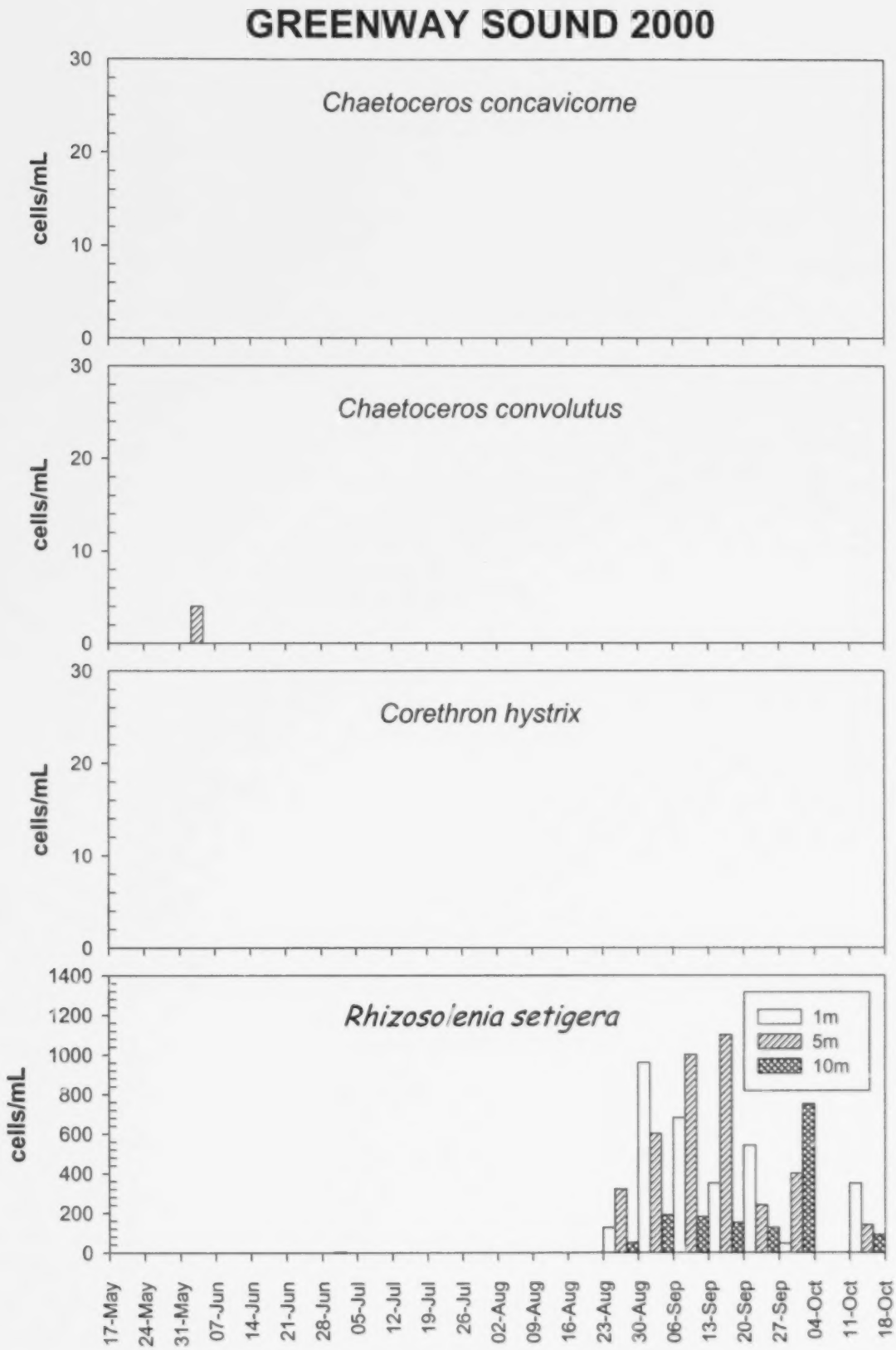

Figure 6: Harmful phytoplankton species in Greenway Sound samples.

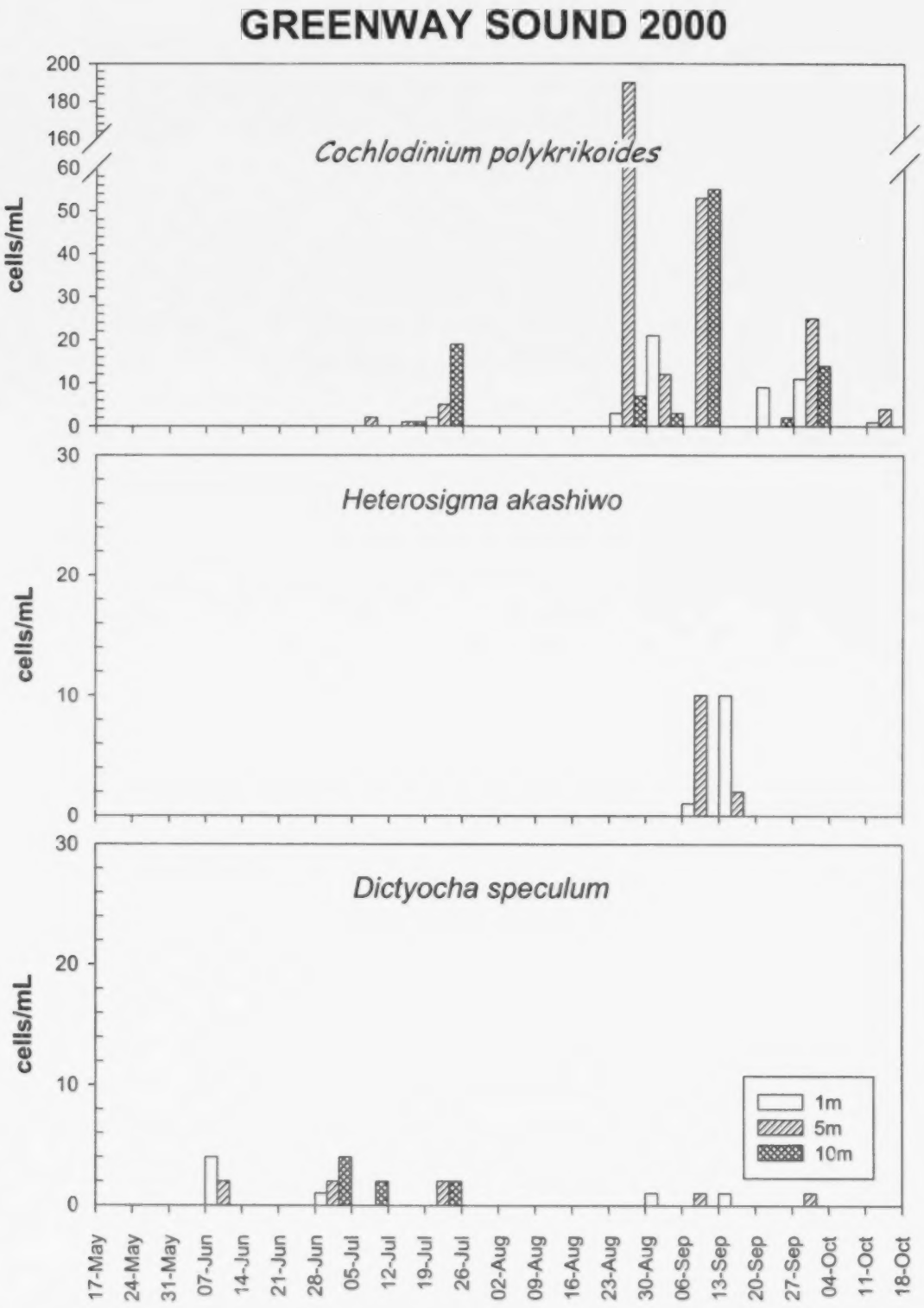

Figure 7: Harmful phytoplankton species in Greenway Sound samples.

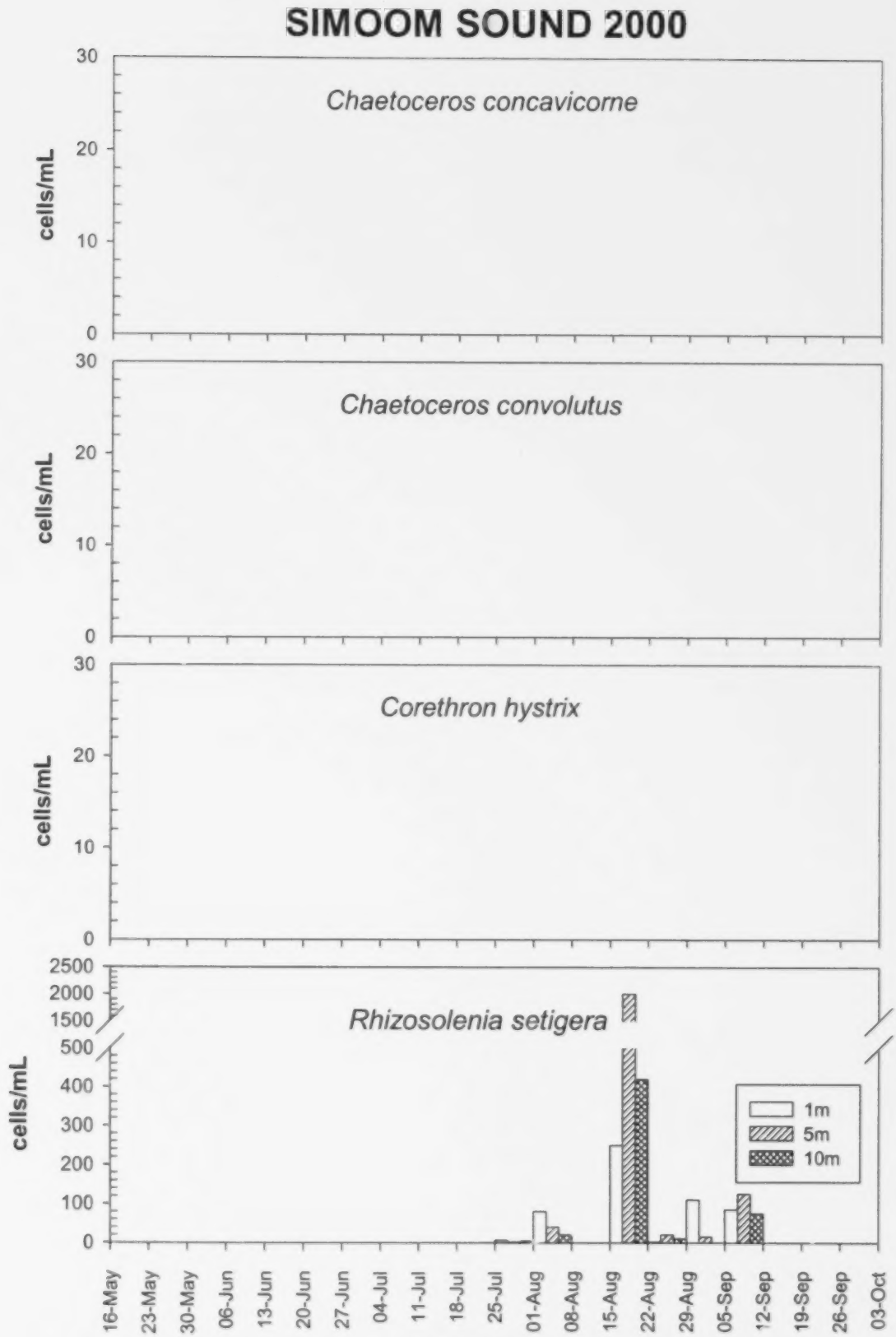

Figure 8: Harmful phytoplankton species in Simoom Sound samples.

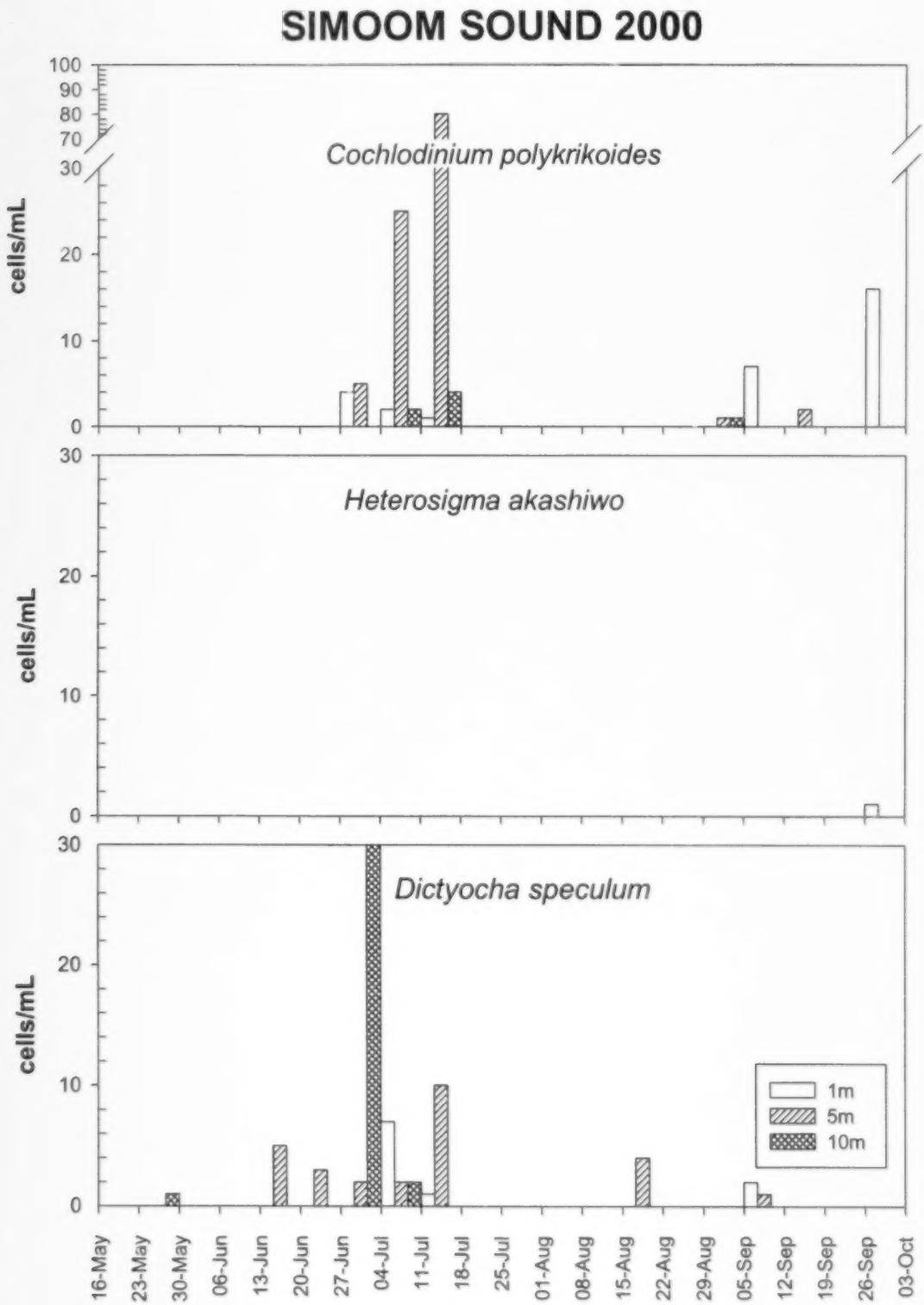

Figure 9: Harmful phytoplankton species in Simoom Sound samples.

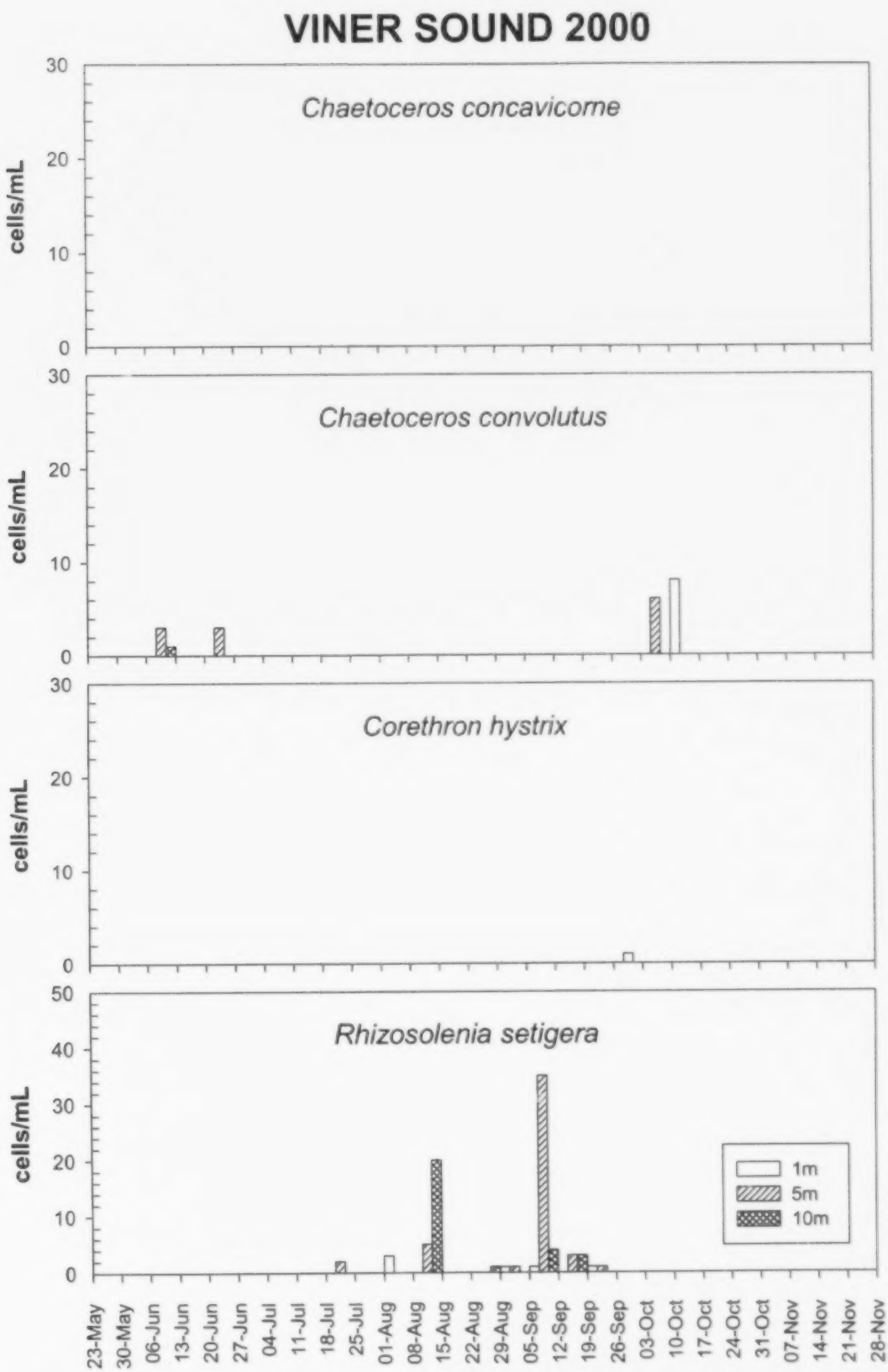

Figure 10: Harmful phytoplankton species in Viner Sound samples.

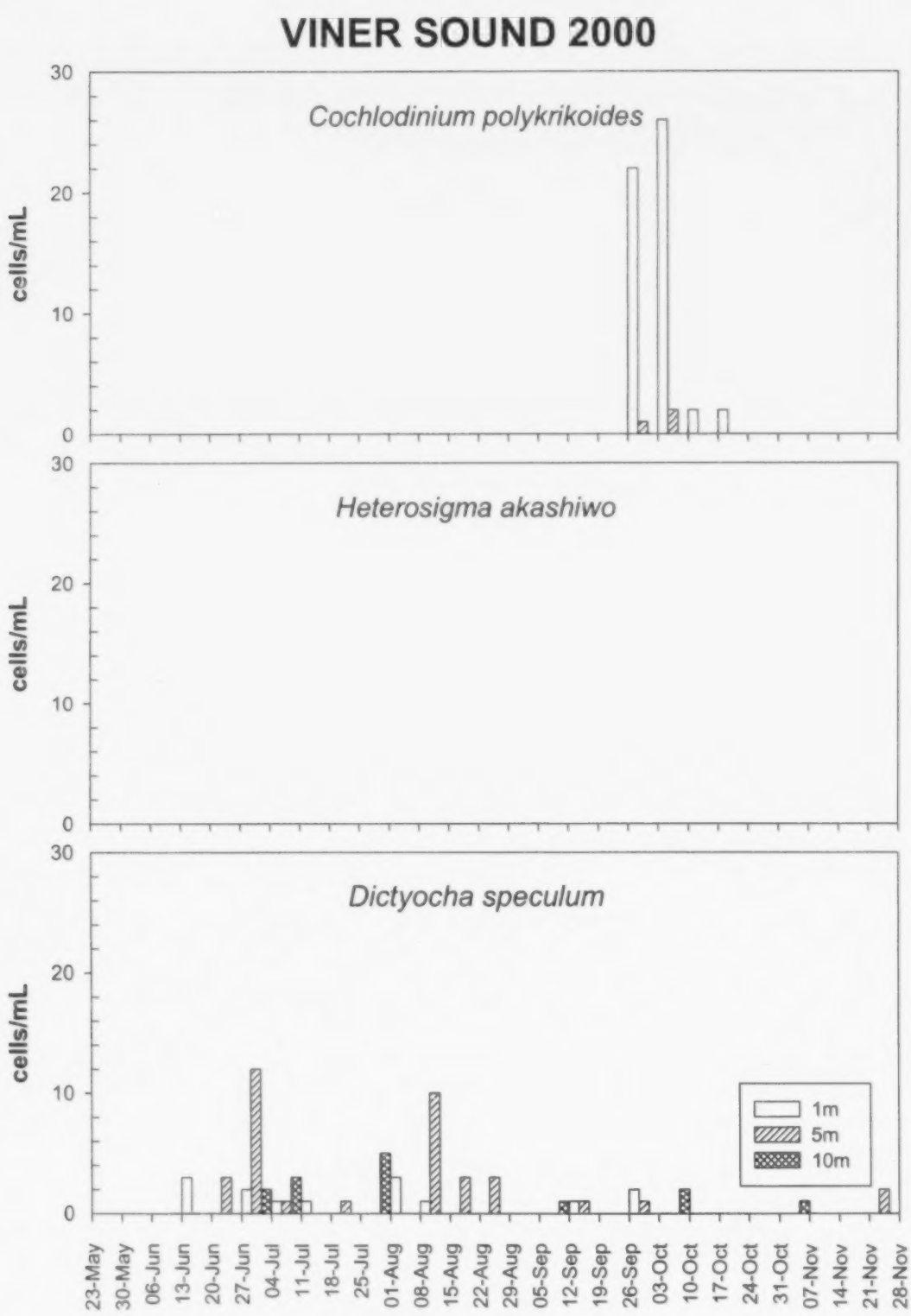

Figure 11: Harmful phytoplankton species in Viner Sound samples.

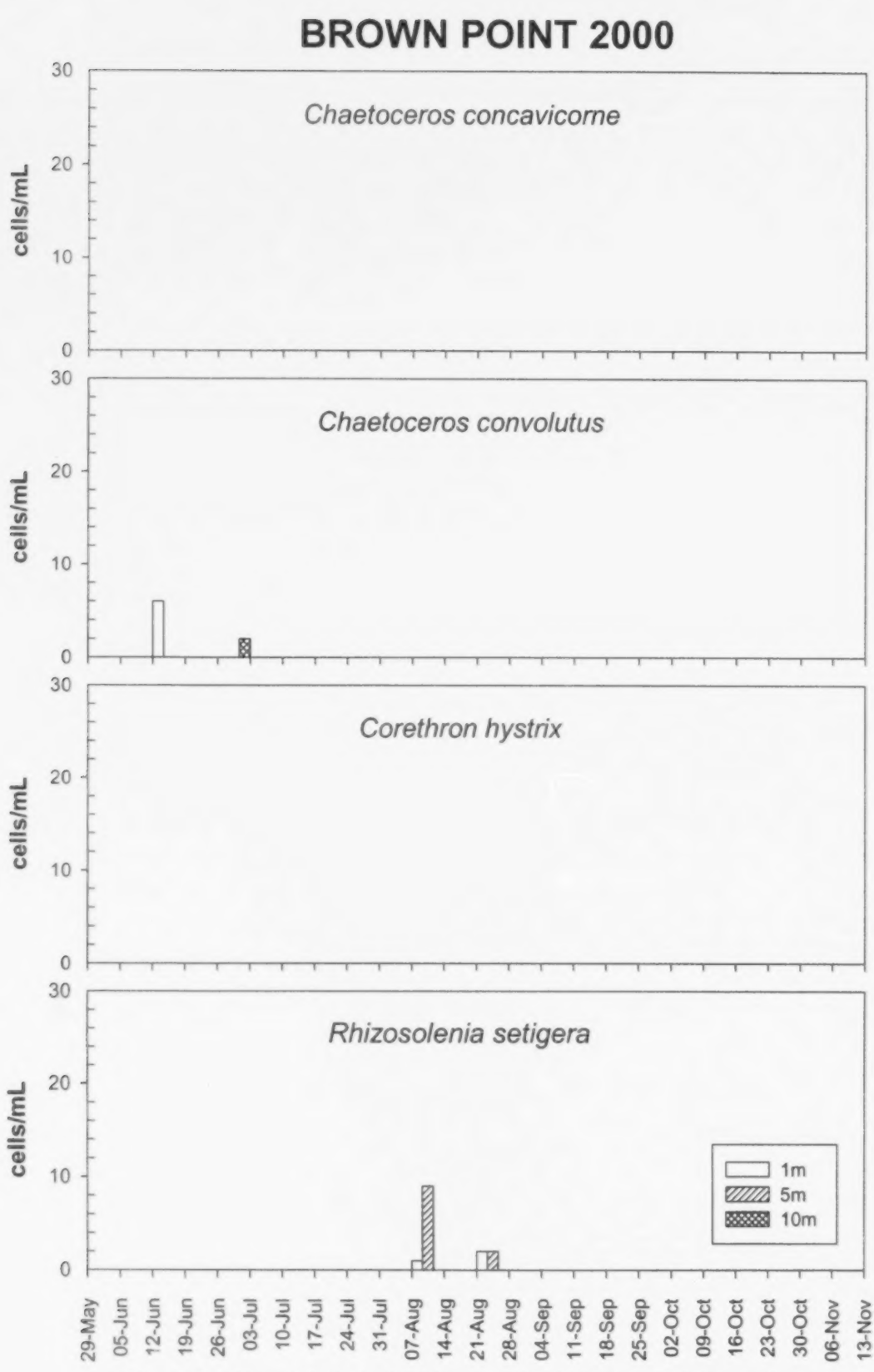

Figure 12: Harmful phytoplankton species in Brown Point samples.

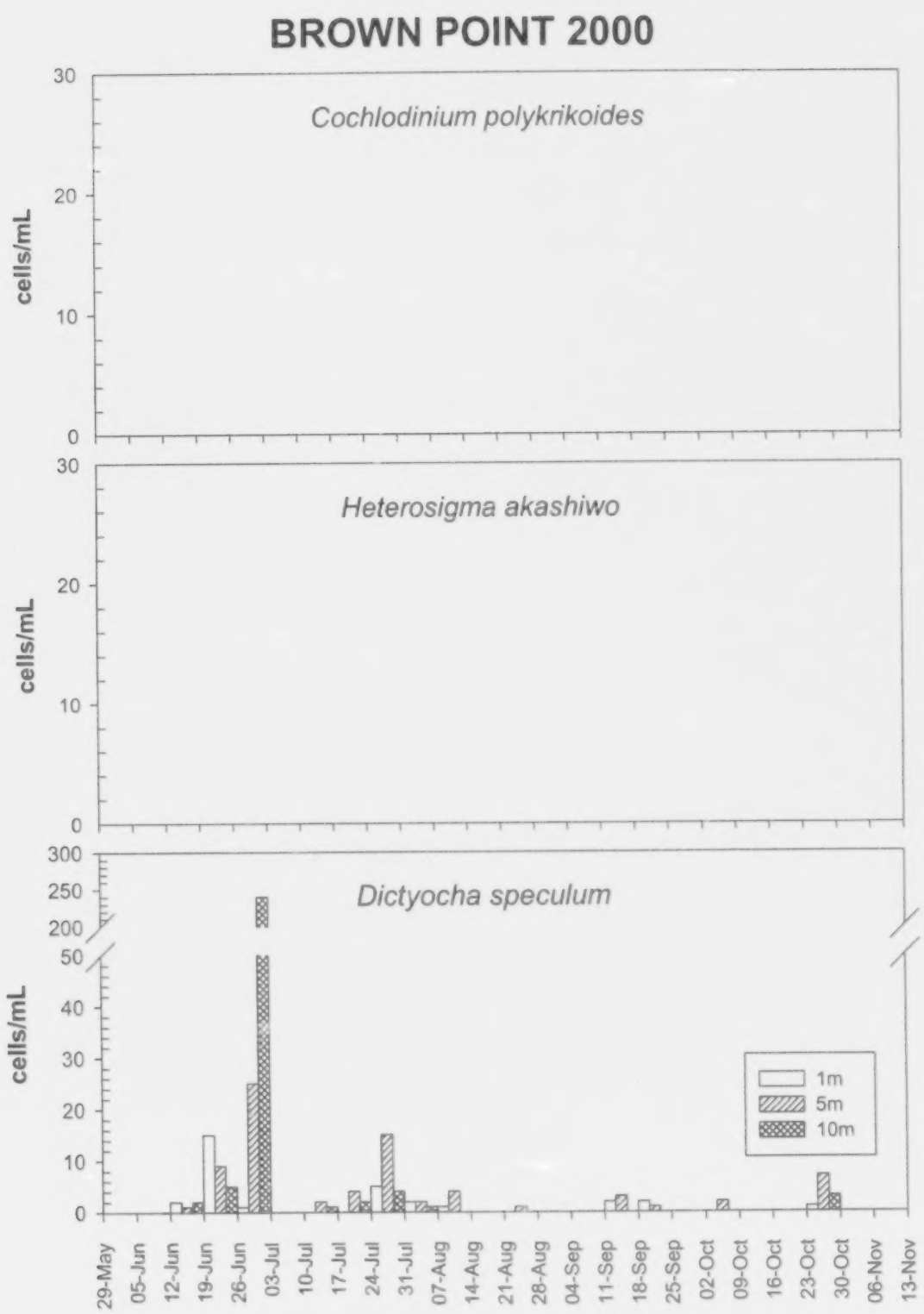

Figure 13: Harmful phytoplankton species in Brown Point samples.

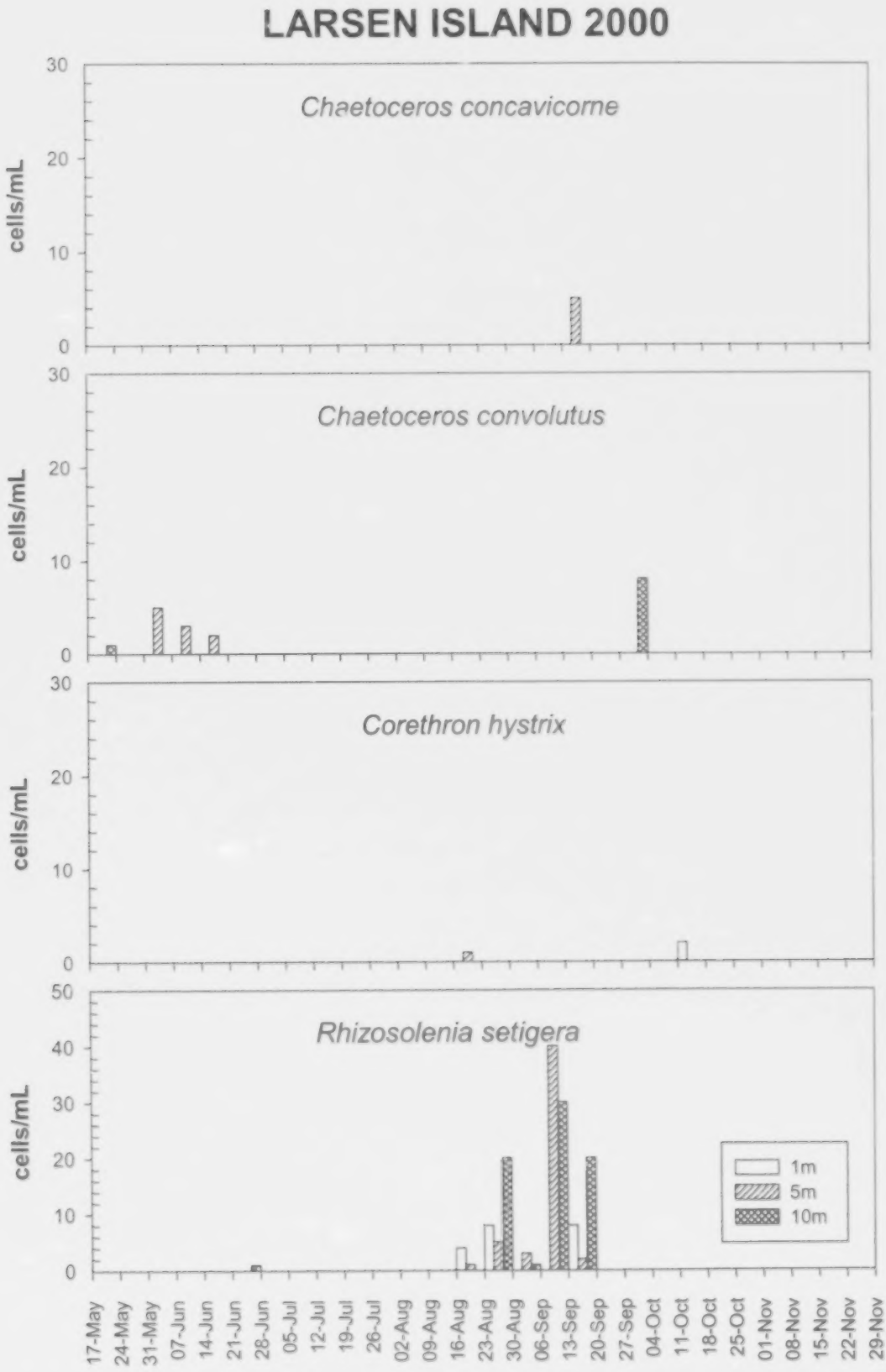

Figure 14: Harmful phytoplankton species in Larsen Island samples.

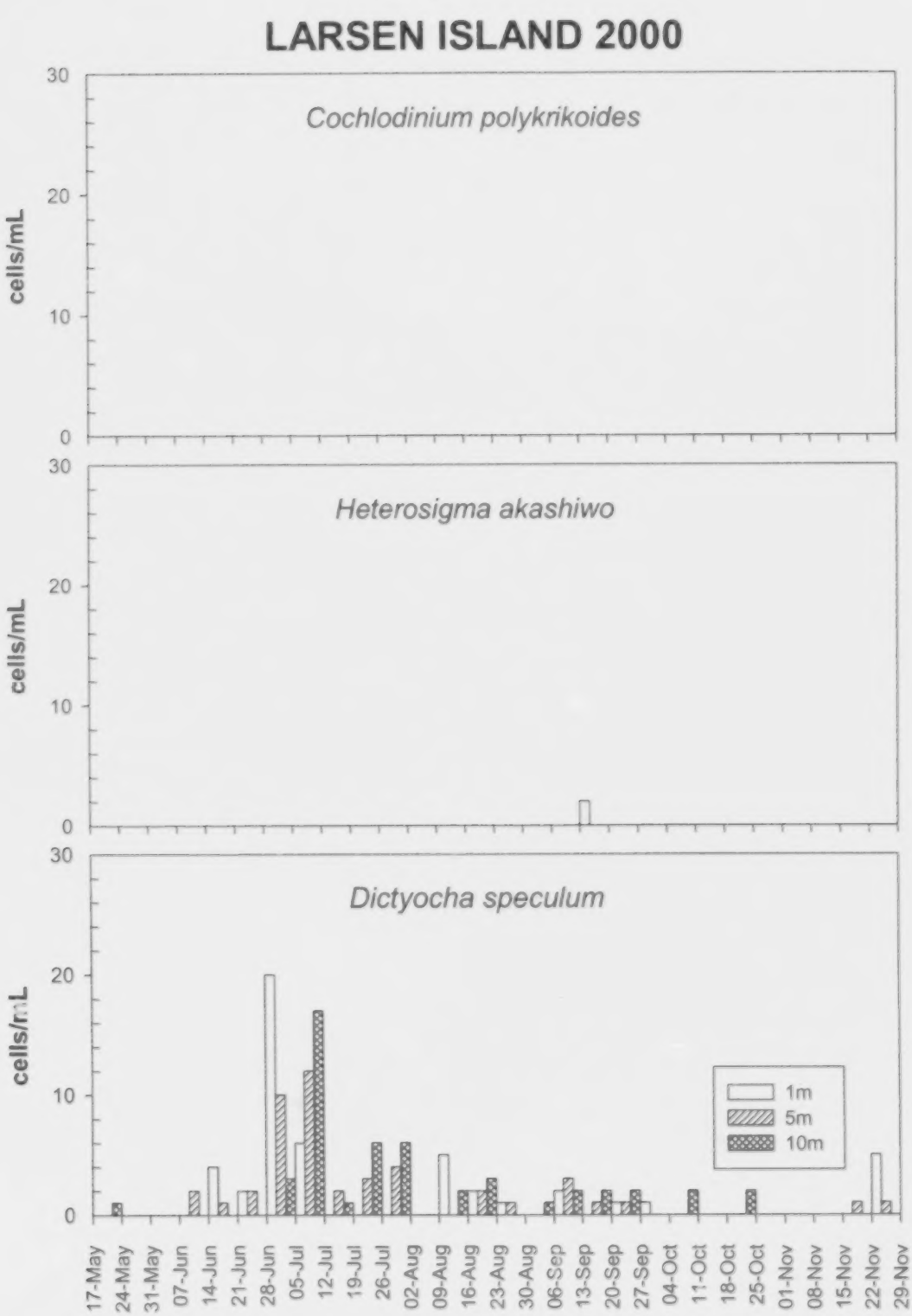

Figure 15: Harmful phytoplankton species in Larsen Island samples.

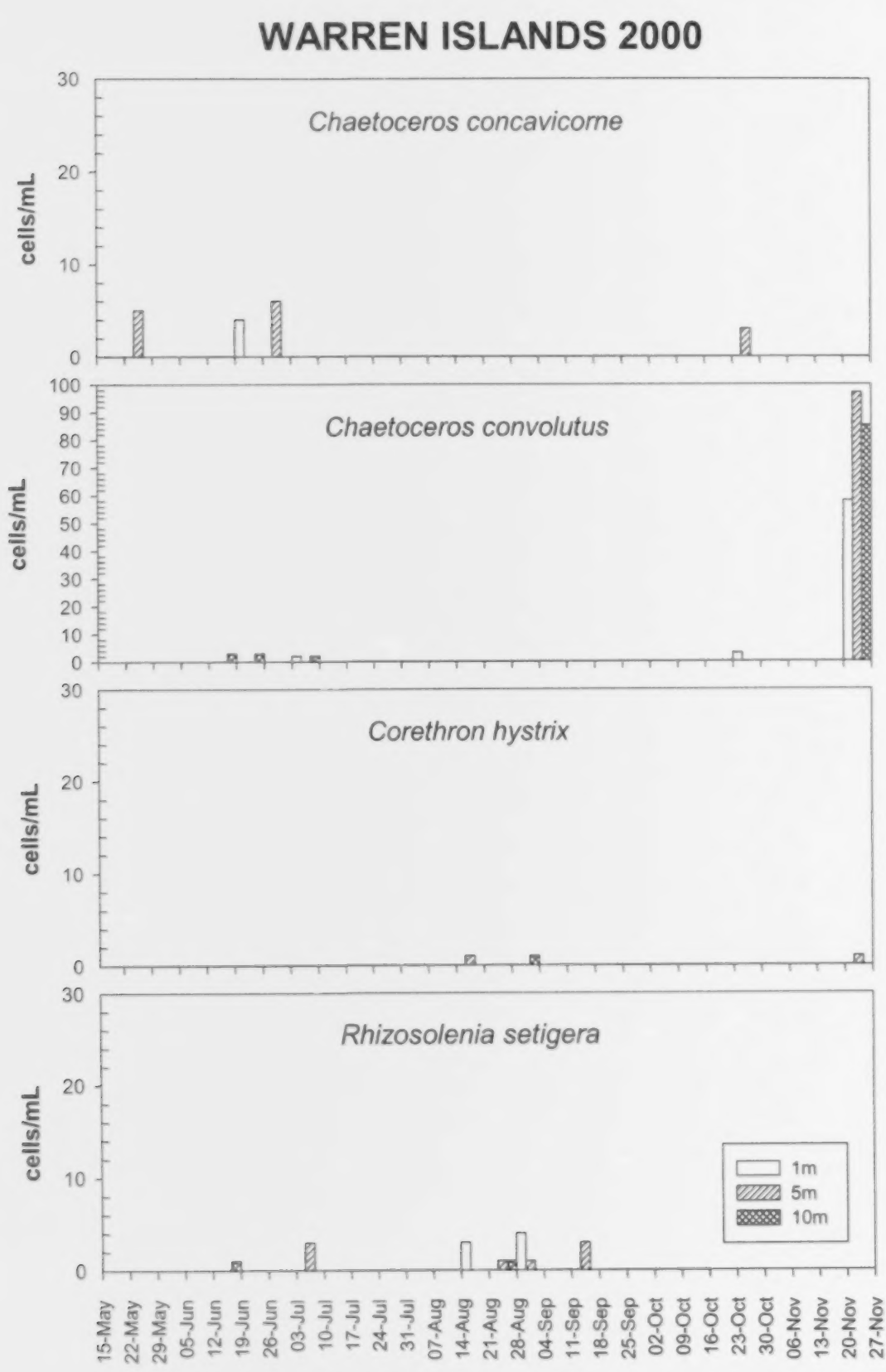

Figure 16: Harmful phytoplankton species in Warren Islands samples.

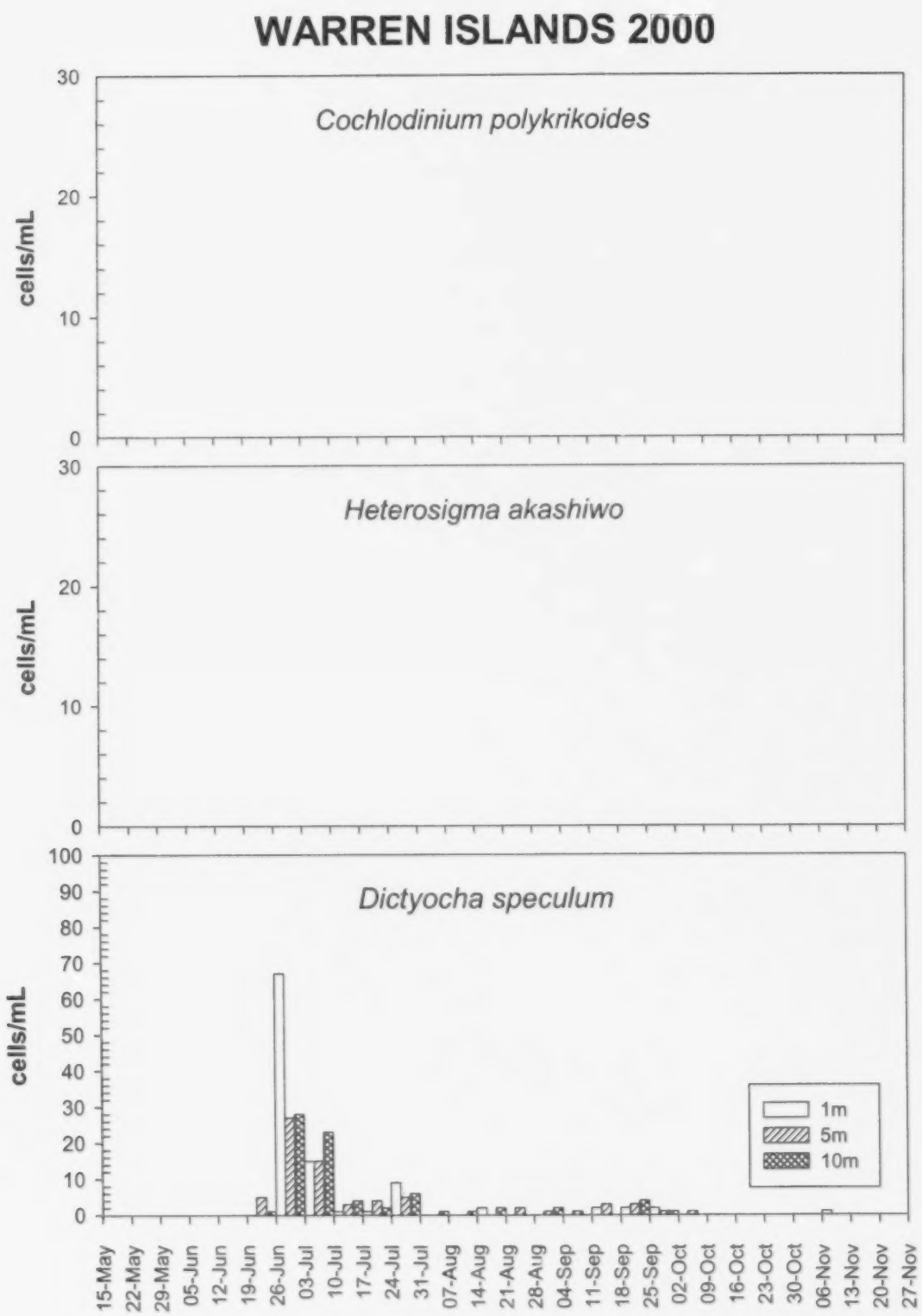

Figure 17: Harmful phytoplankton species in Warren Islands 2000 samples.

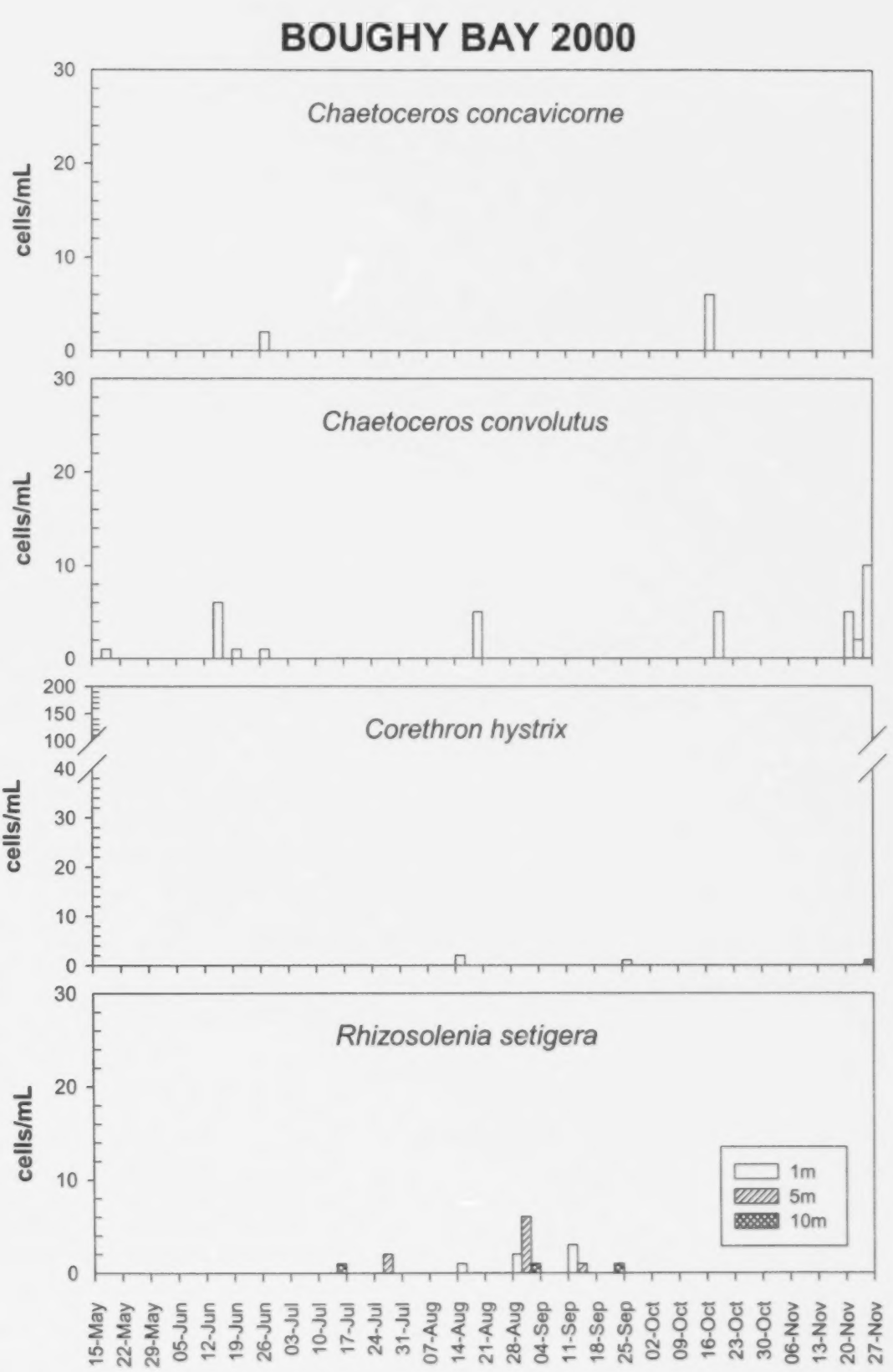

Figure 18: Harmful phytoplankton species in Boughy Bay samples.

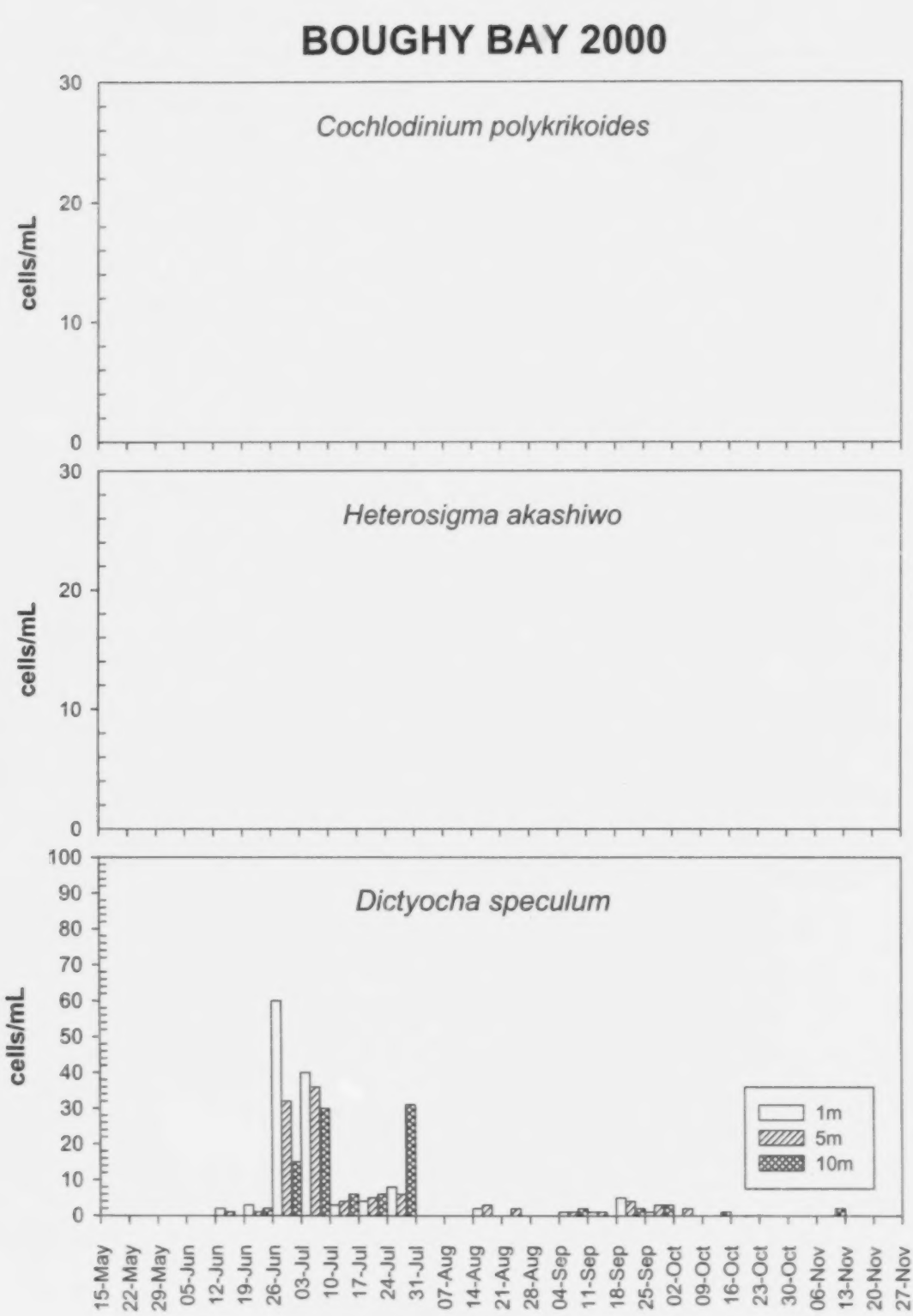

Figure 19: Harmful phytoplankton species in Boughy Bay samples.

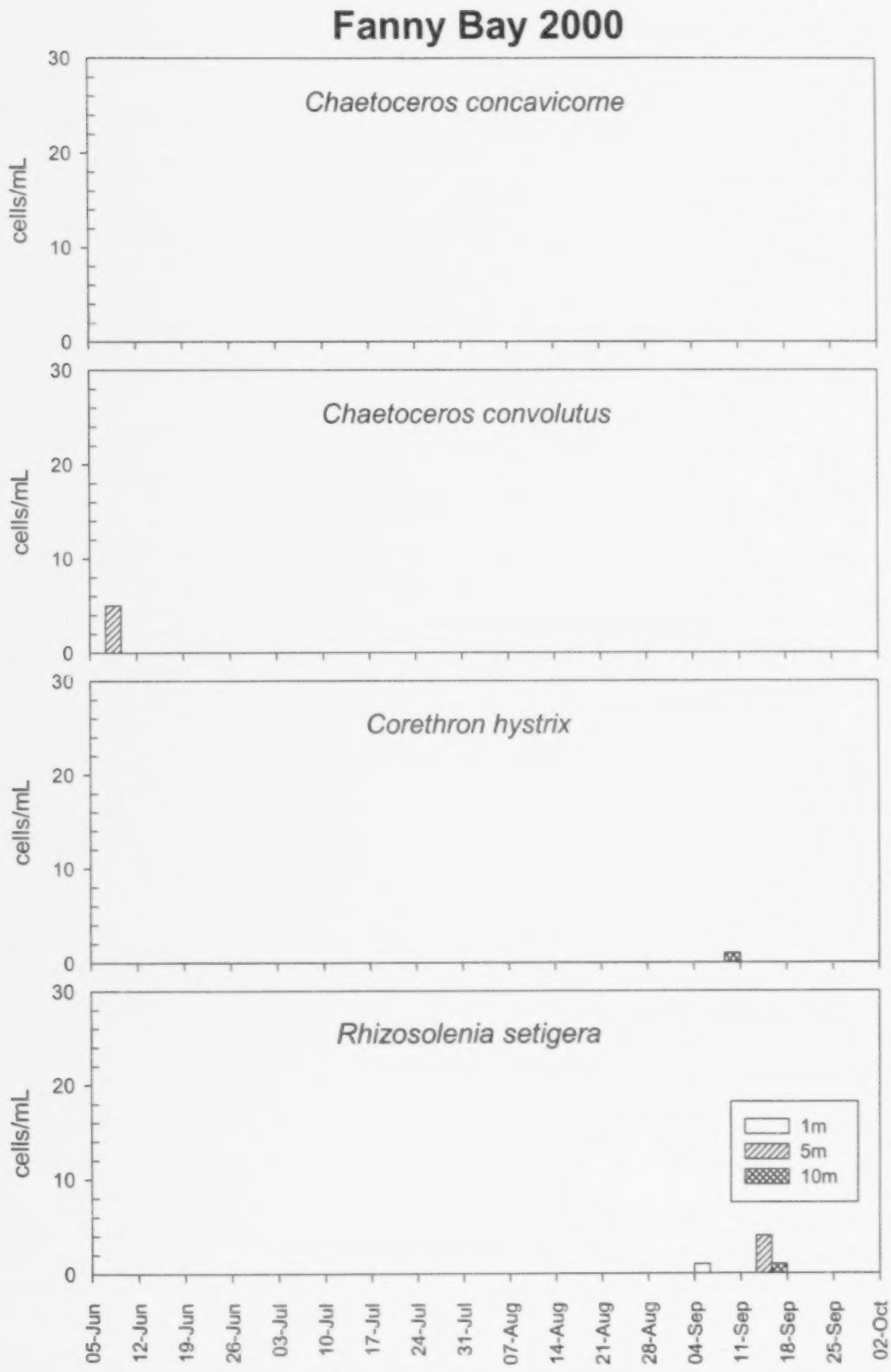

Figure 20: Harmful phytoplankton species in Fanny Bay samples.

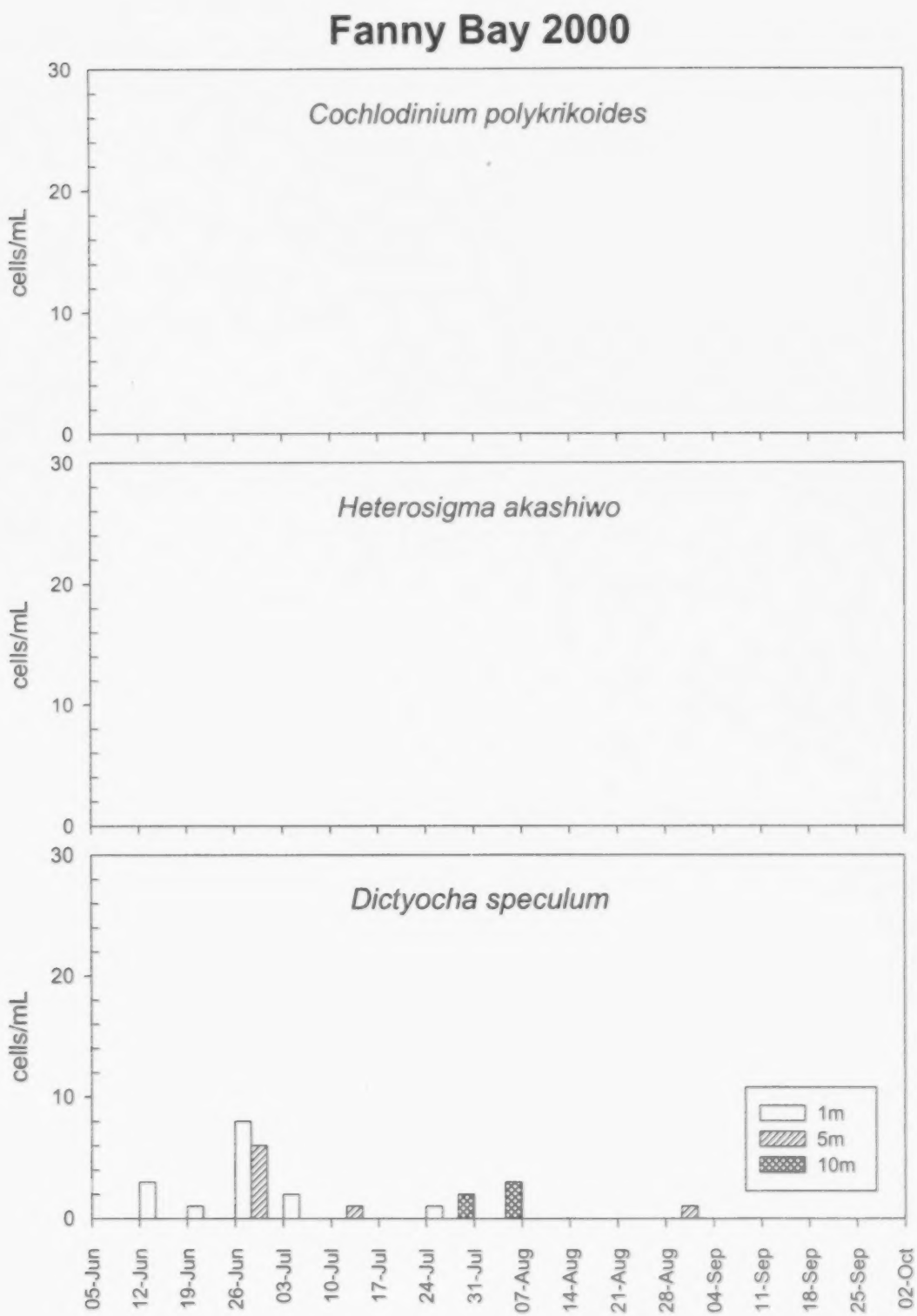

Figure 21: Harmful phytoplankton species in Fanny Bay samples.

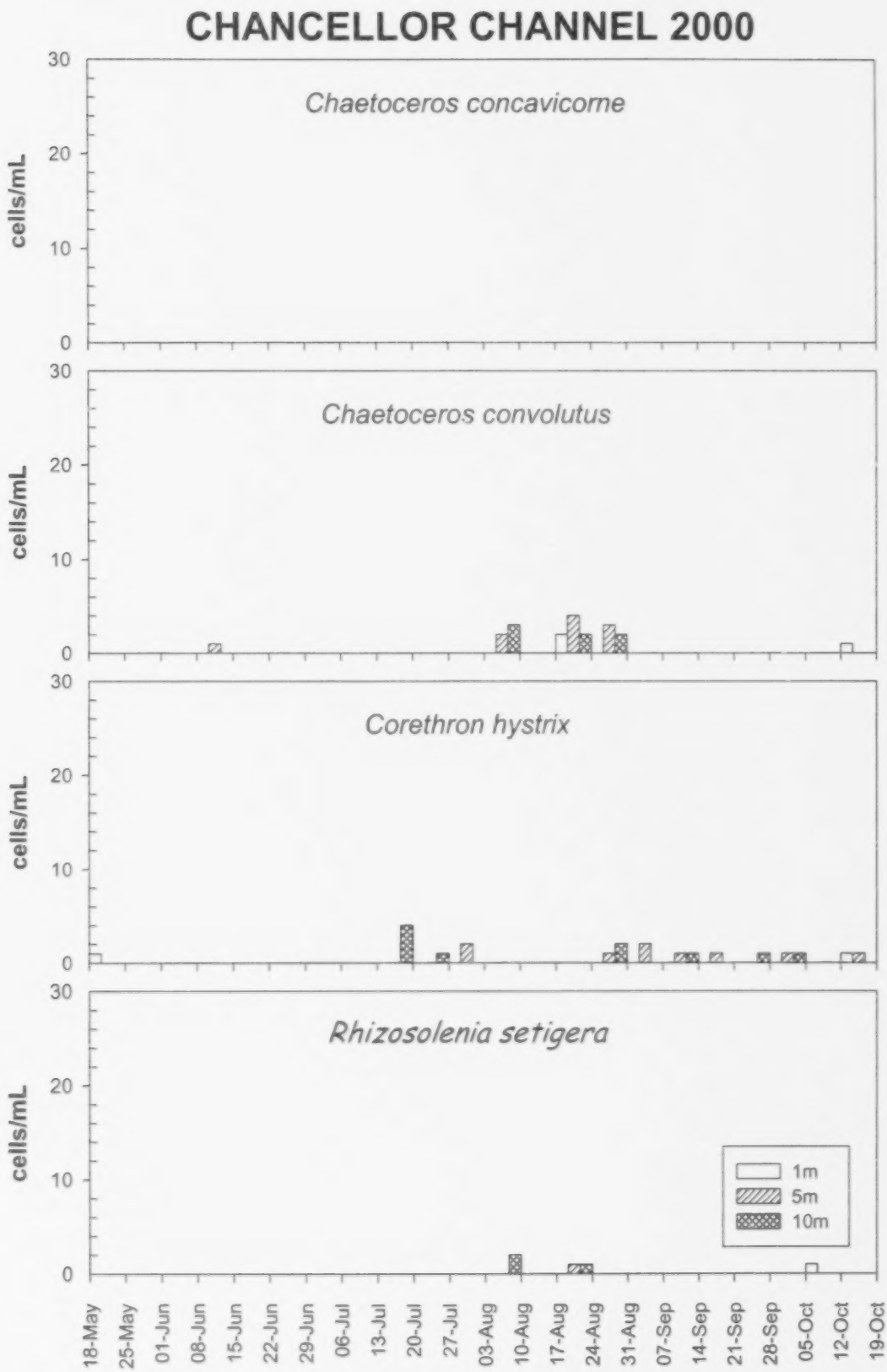

Figure 22: Harmful phytoplankton species in Chancellor Channel samples.

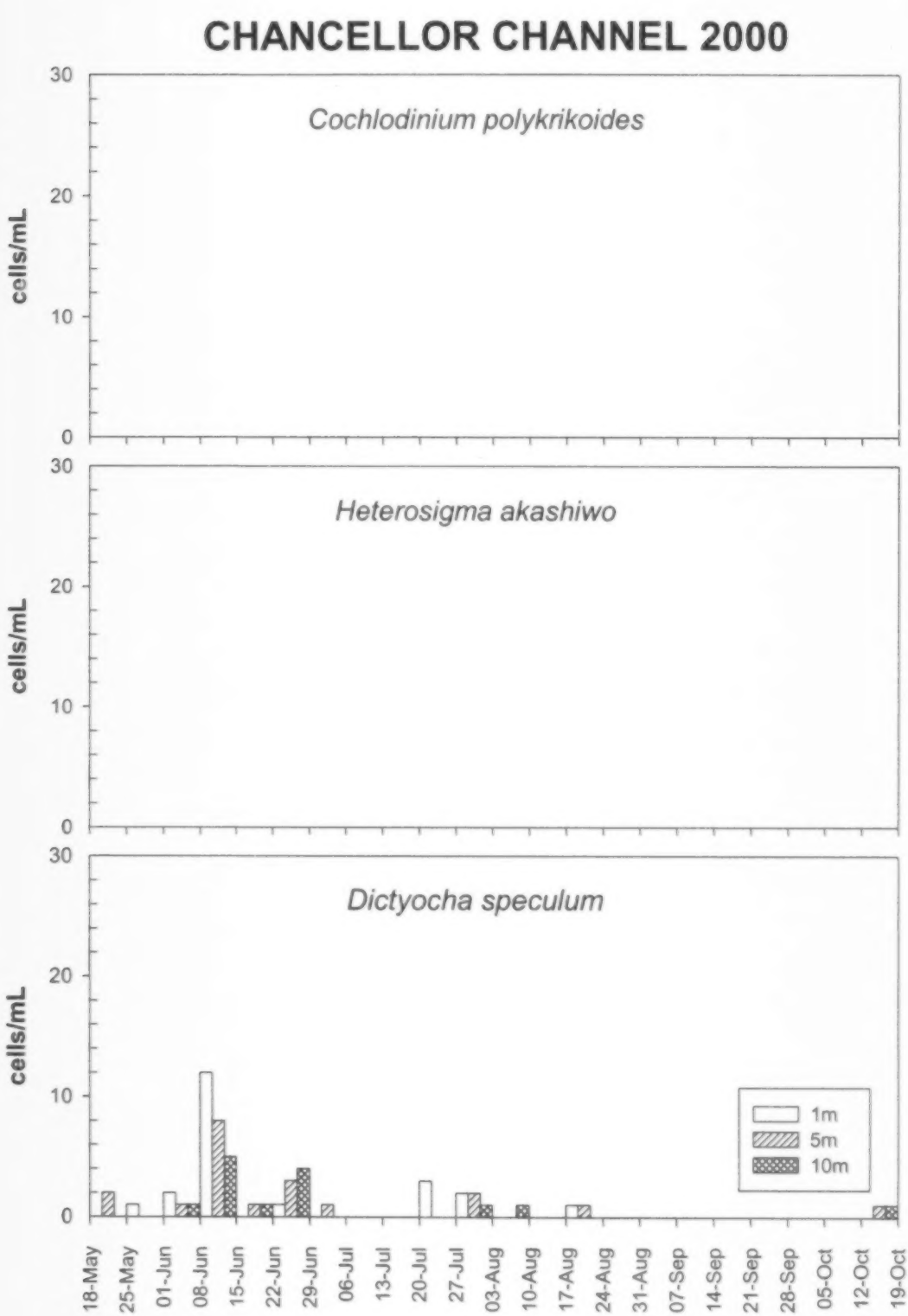

Figure 23: Harmful phytoplankton species in Chancellor Channel samples.

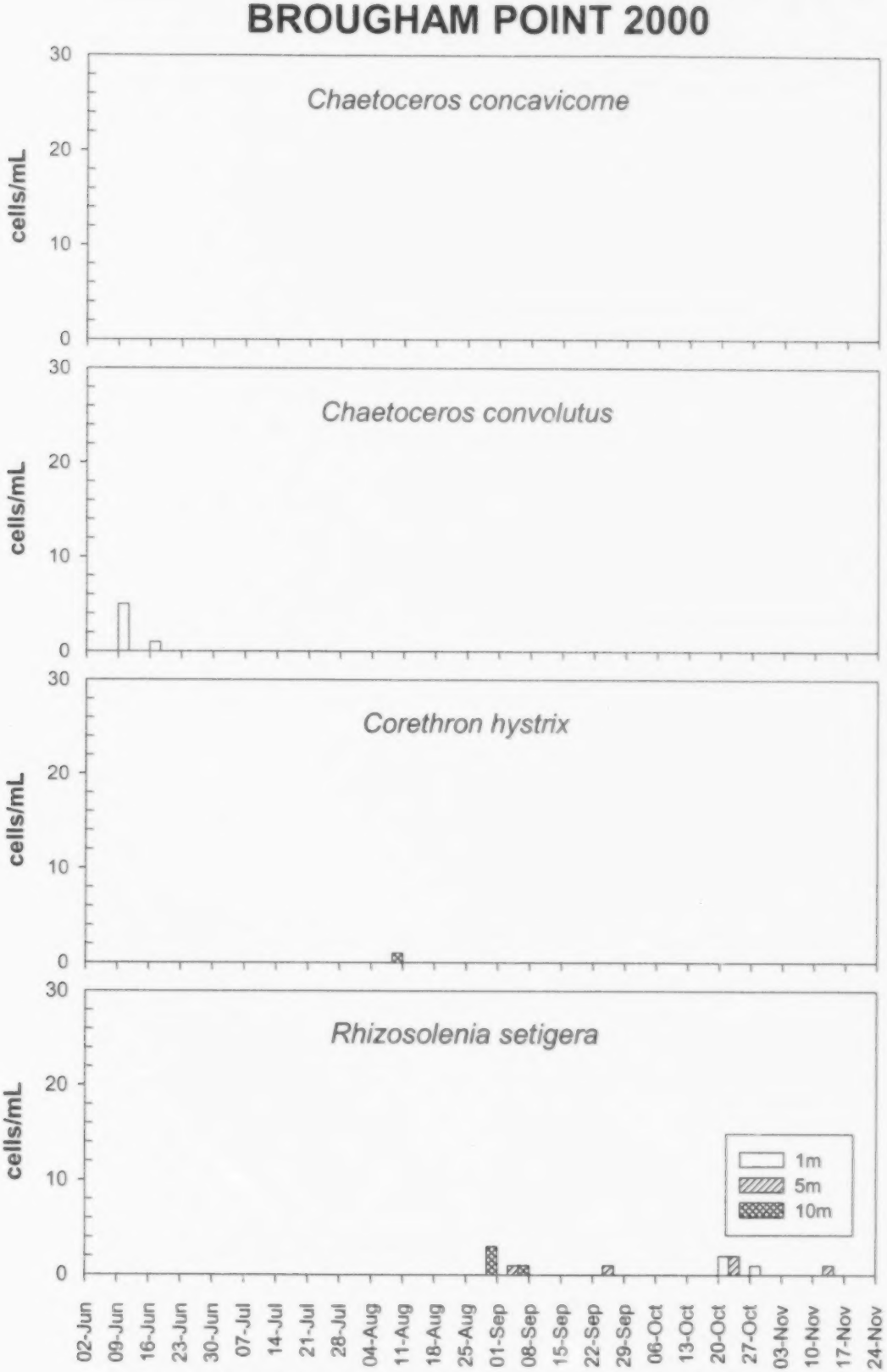

Figure 24: Harmful phytoplankton species in Brougham Point samples.

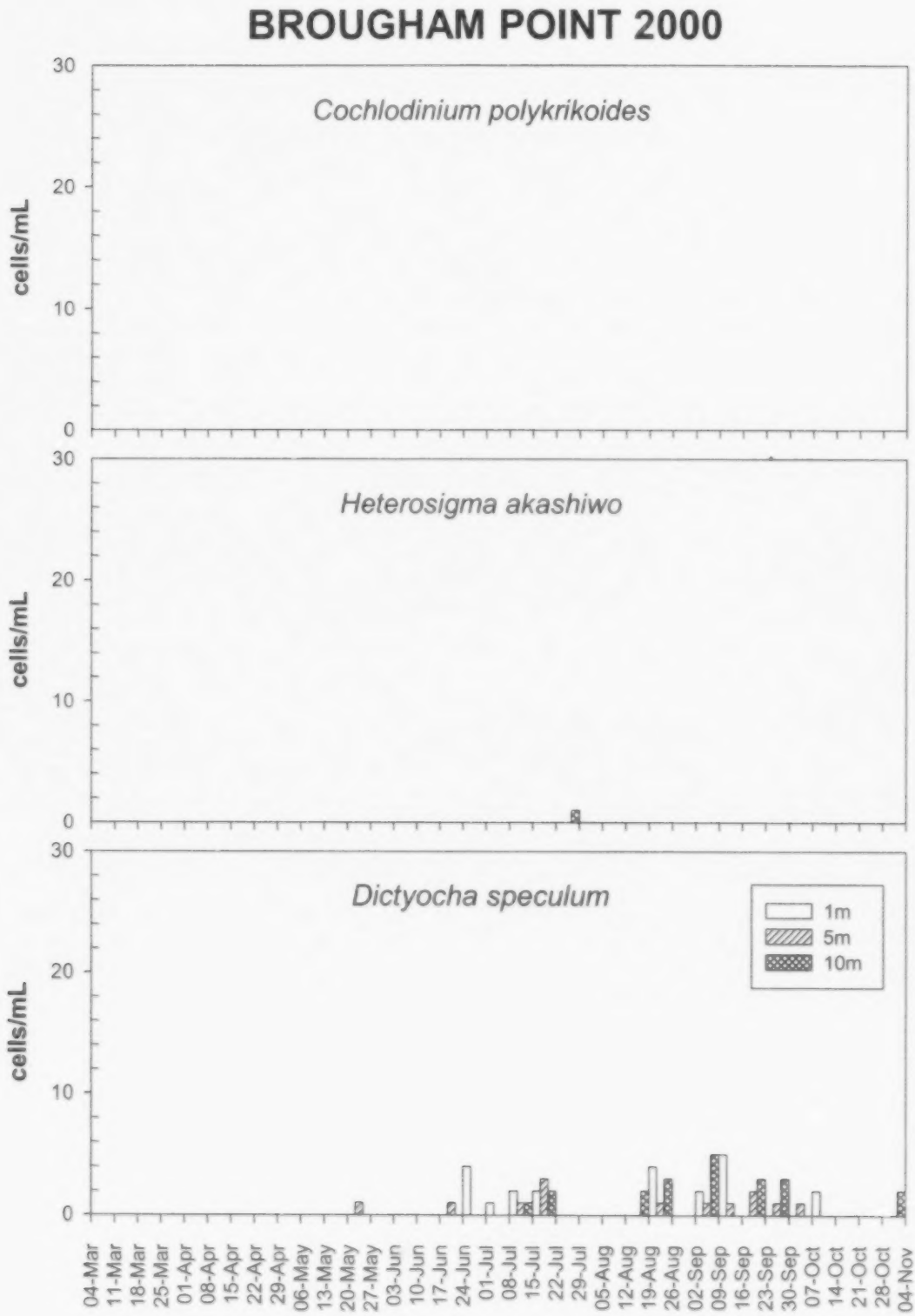

Figure 25: Harmful phytoplankton species in Brougham Point samples.

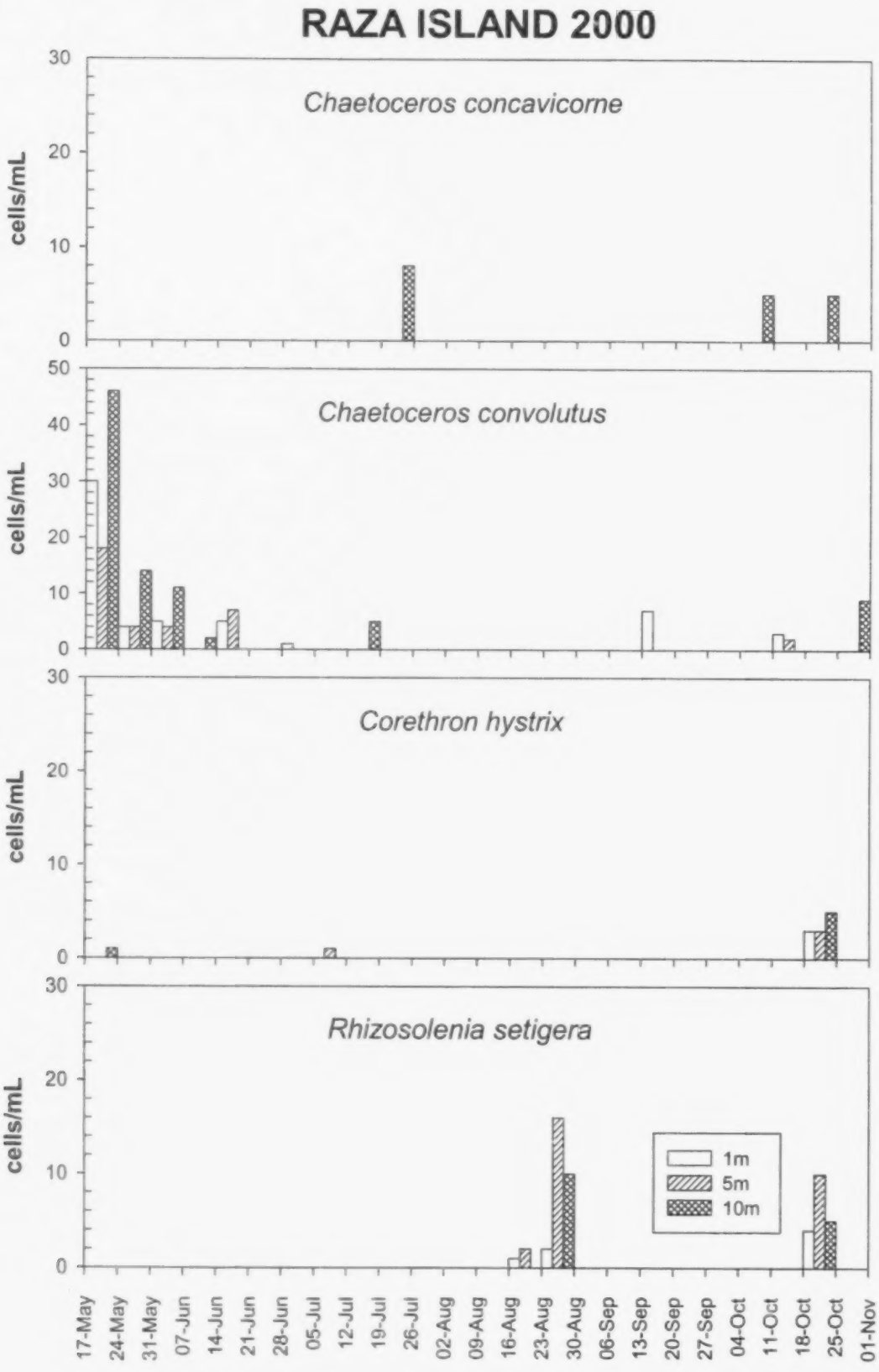

Figure 26: Harmful phytoplankton species in Raza Island samples.

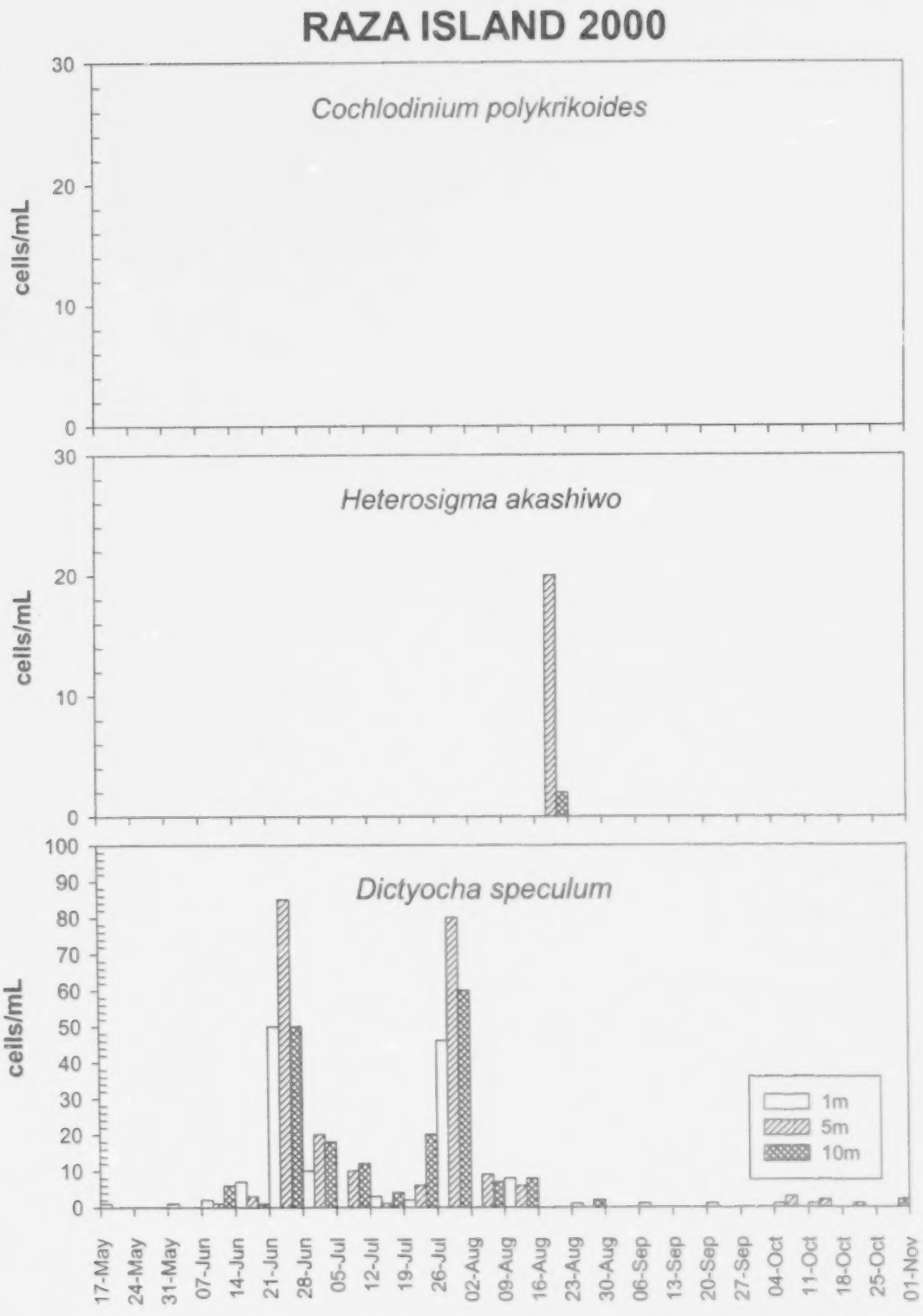

Figure 27: Harmful phytoplankton species in Raza Island samples.

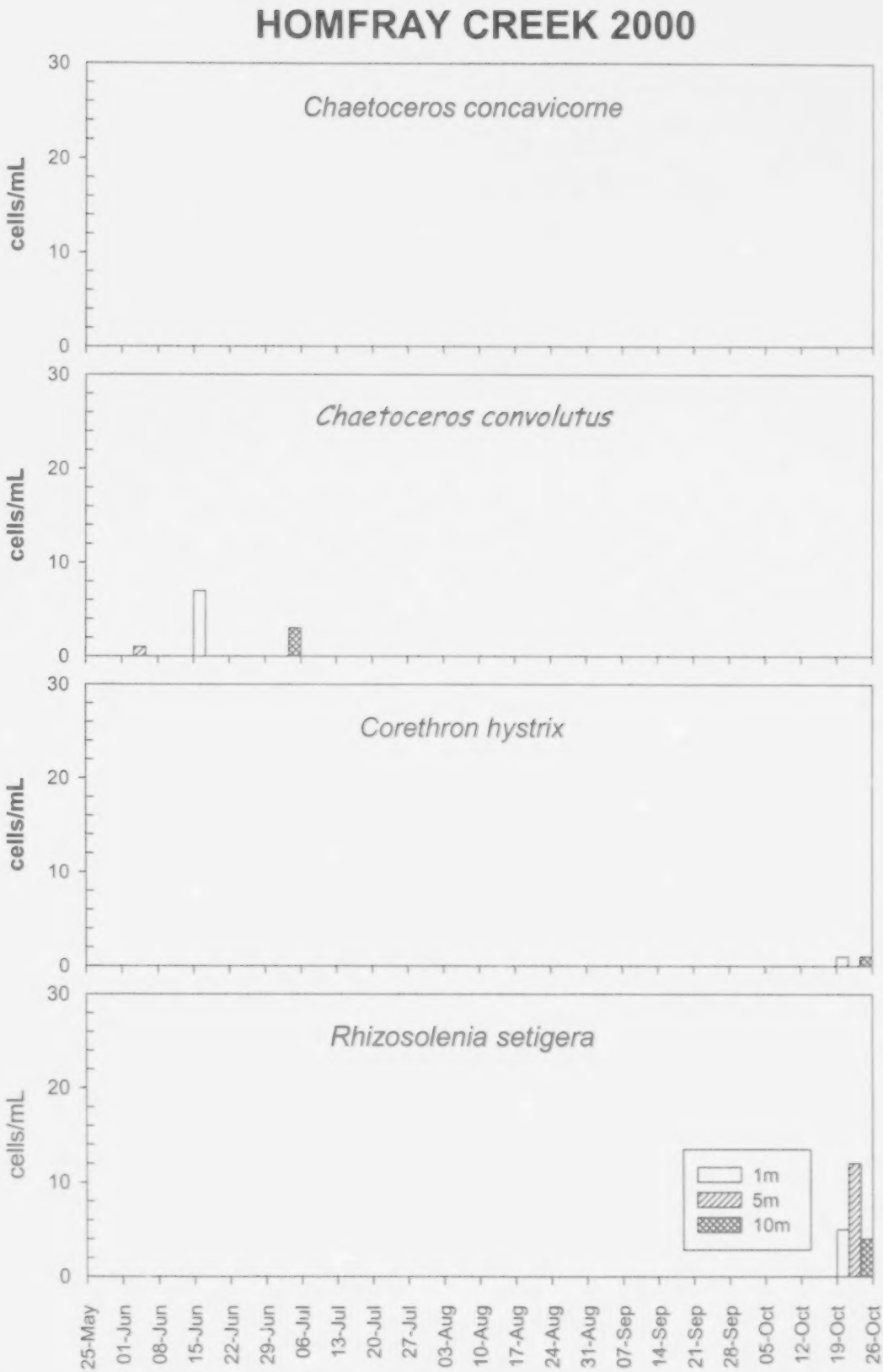

Figure 28: Harmful phytoplankton species in Homfray Creek samples.

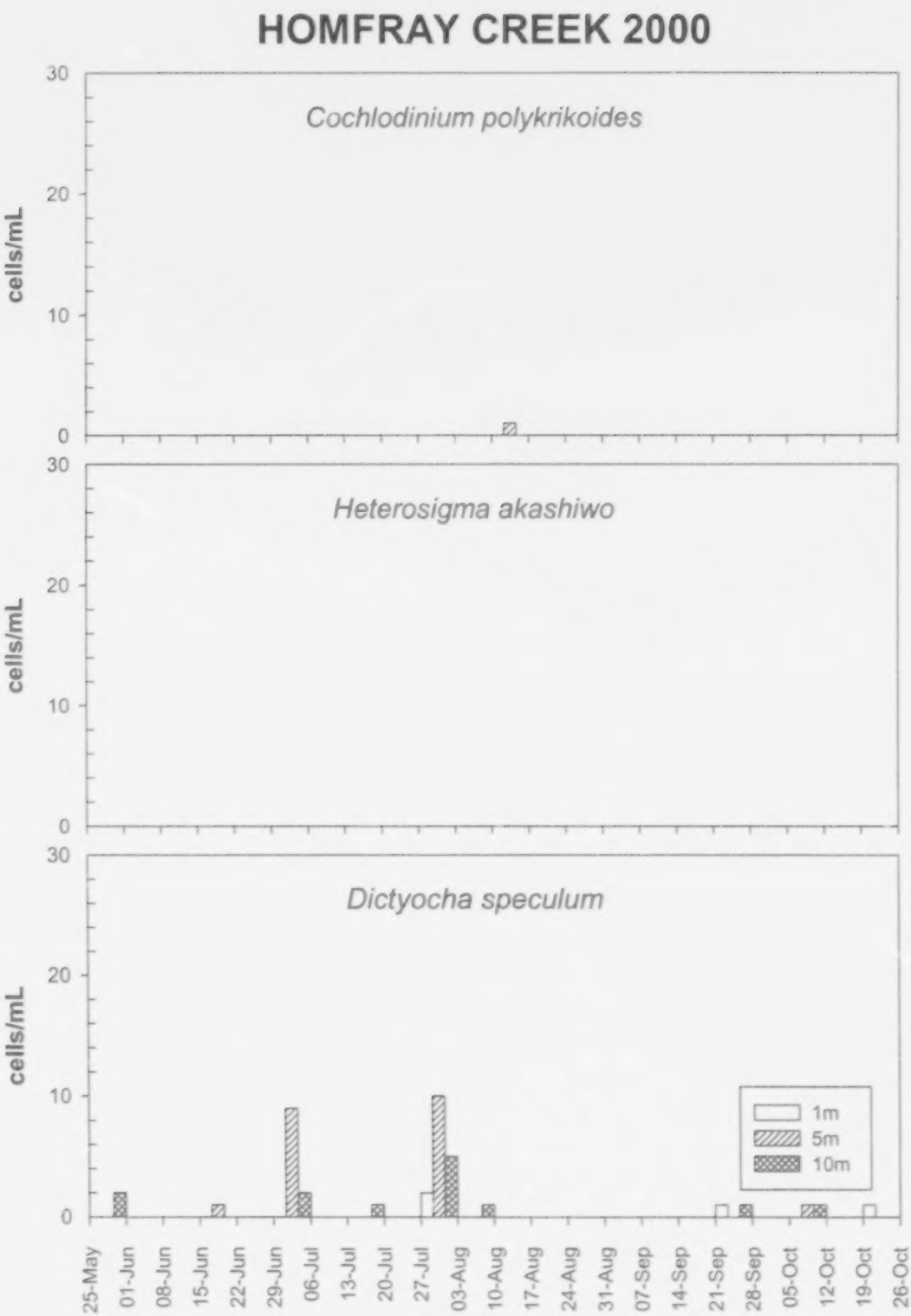

Figure 29: Harmful phytoplankton species in Homfray Creek samples.

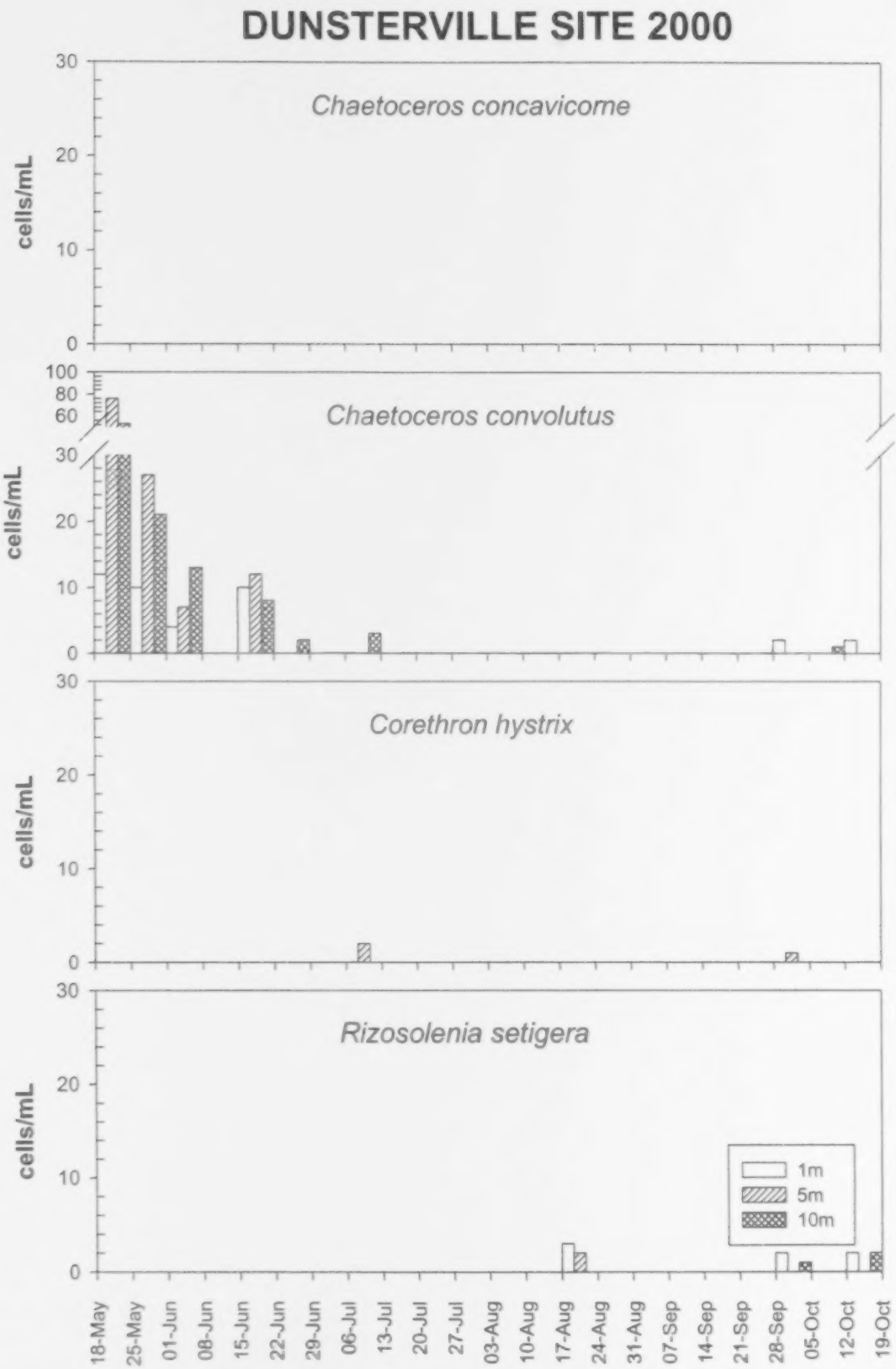

Figure 30: Harmful phytoplankton species in Dunsterville site samples.

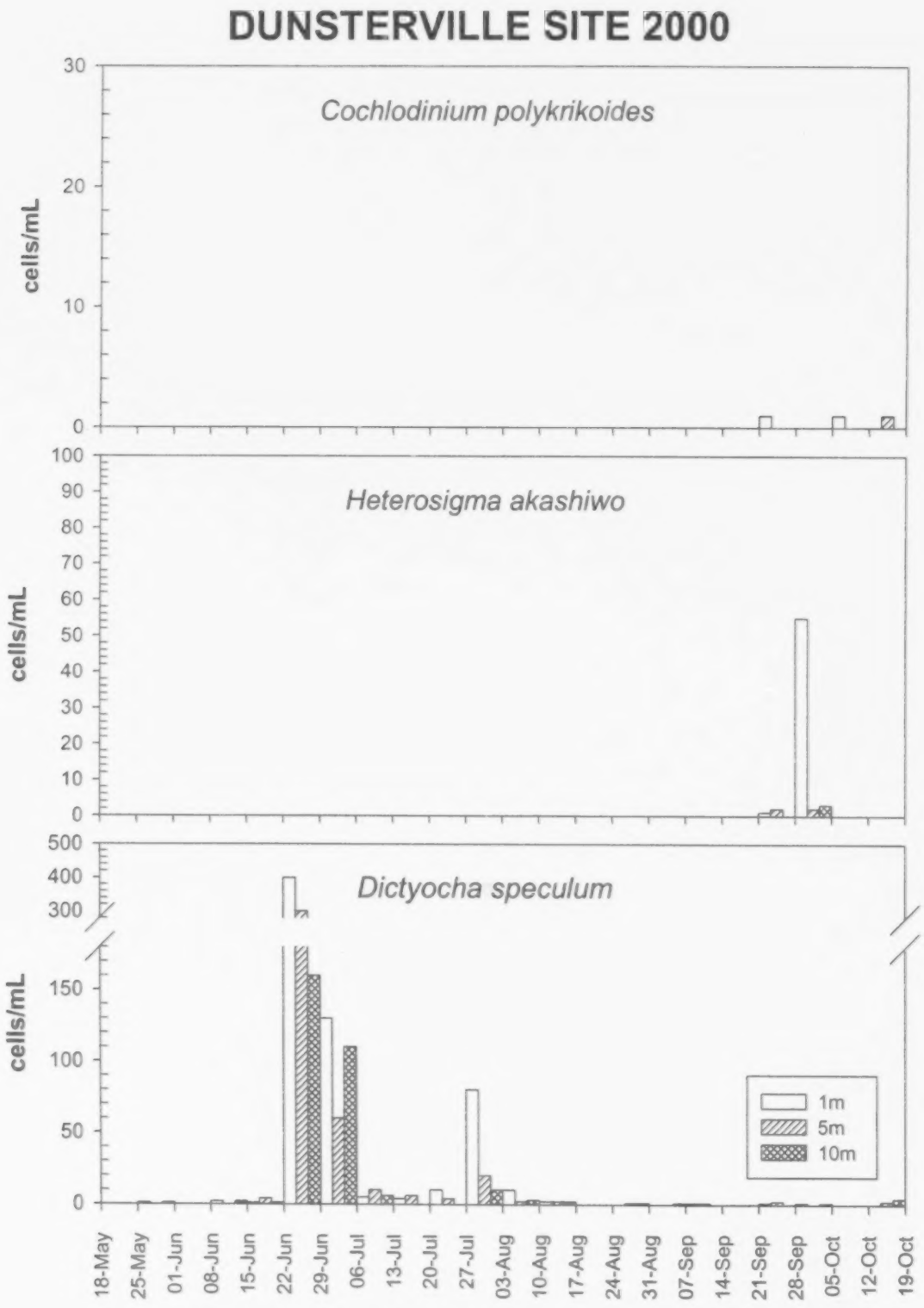

Figure 31: Harmful phytoplankton species in Dunsterville site samples.

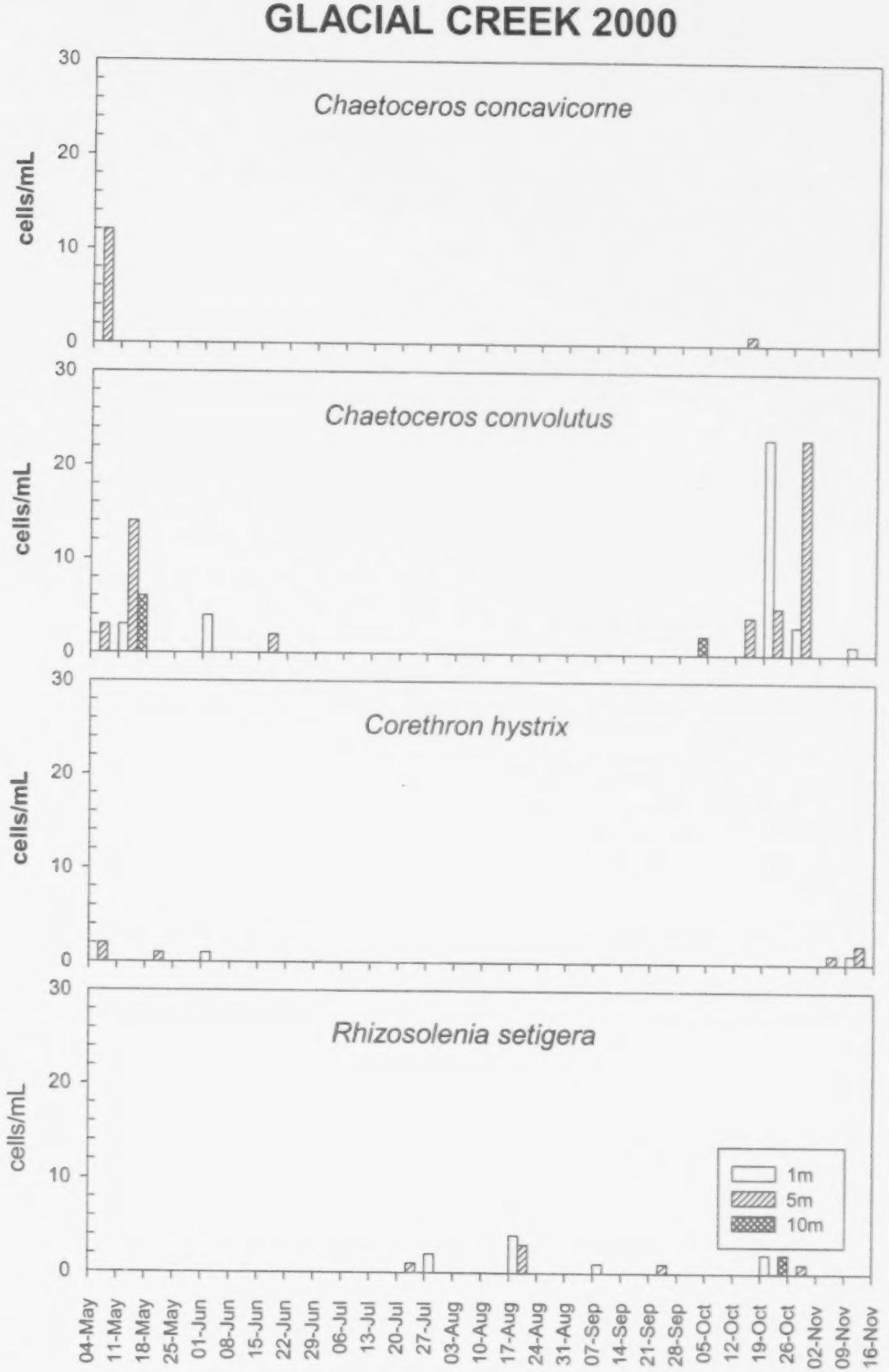

Figure 32: Harmful phytoplankton species in Glacial Creek samples.

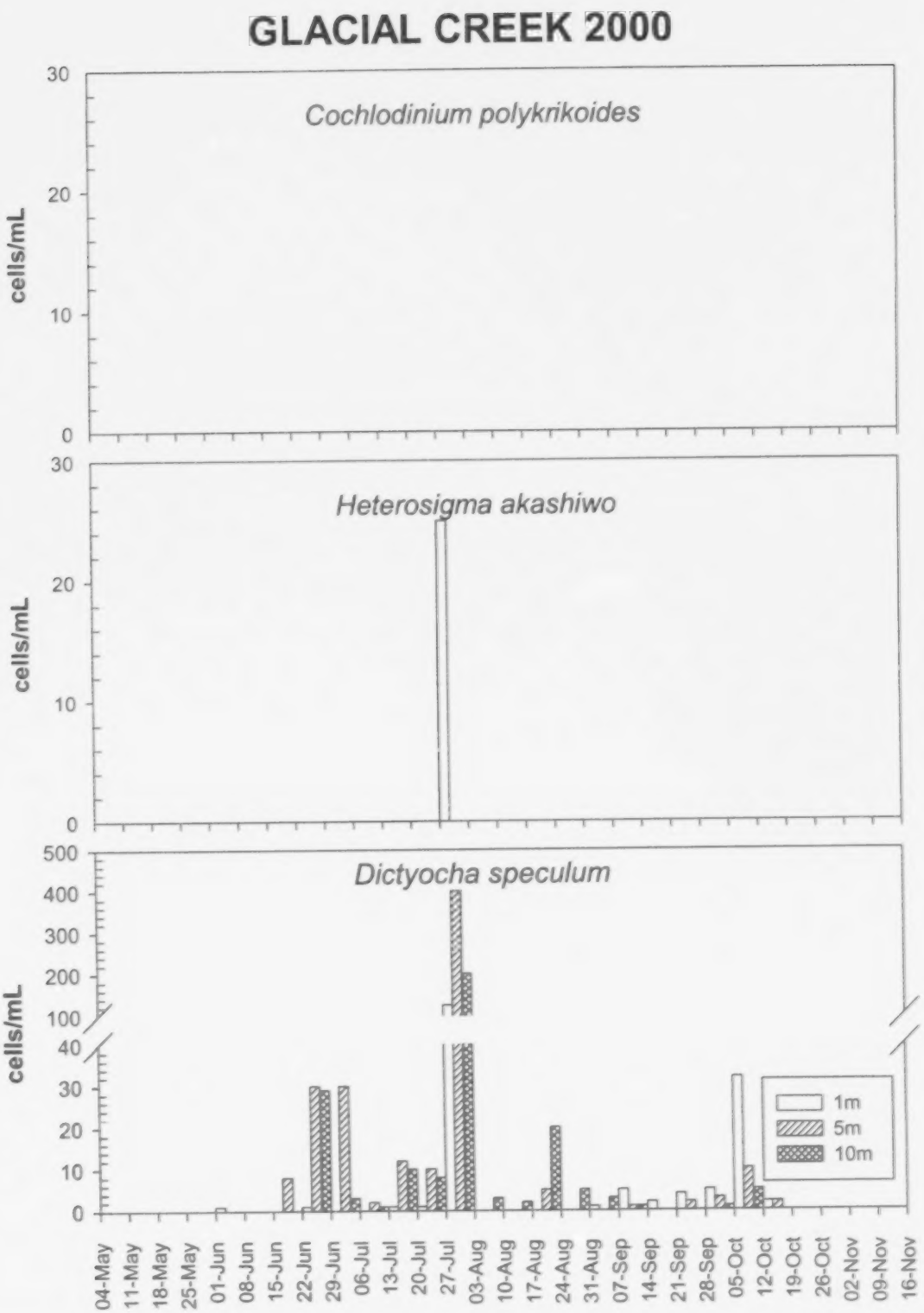

Figure 33: Harmful phytoplankton species in Glacial Creek samples.

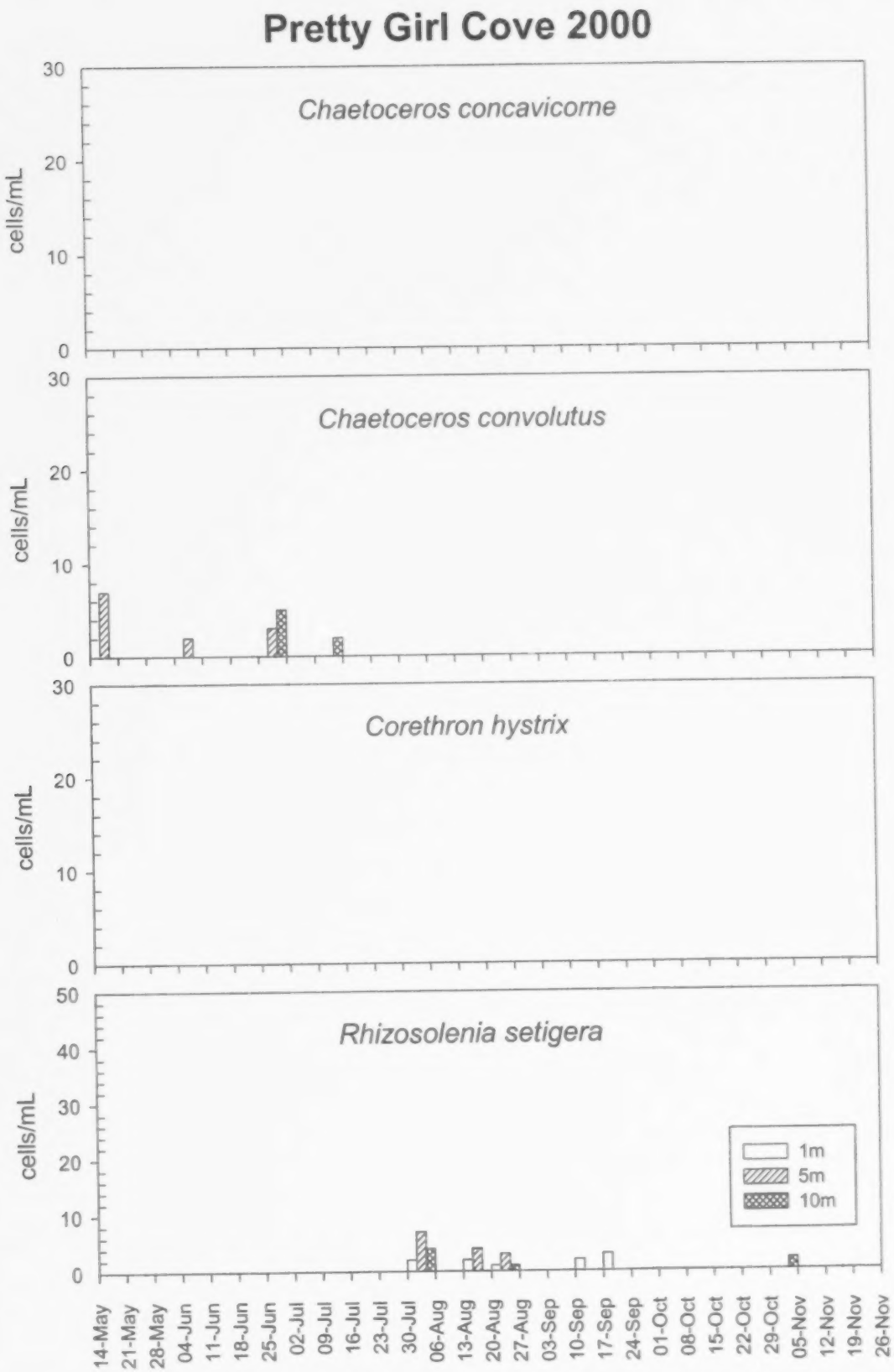

Figure 34: Harmful phytoplankton species in Pretty Girl Cove samples.

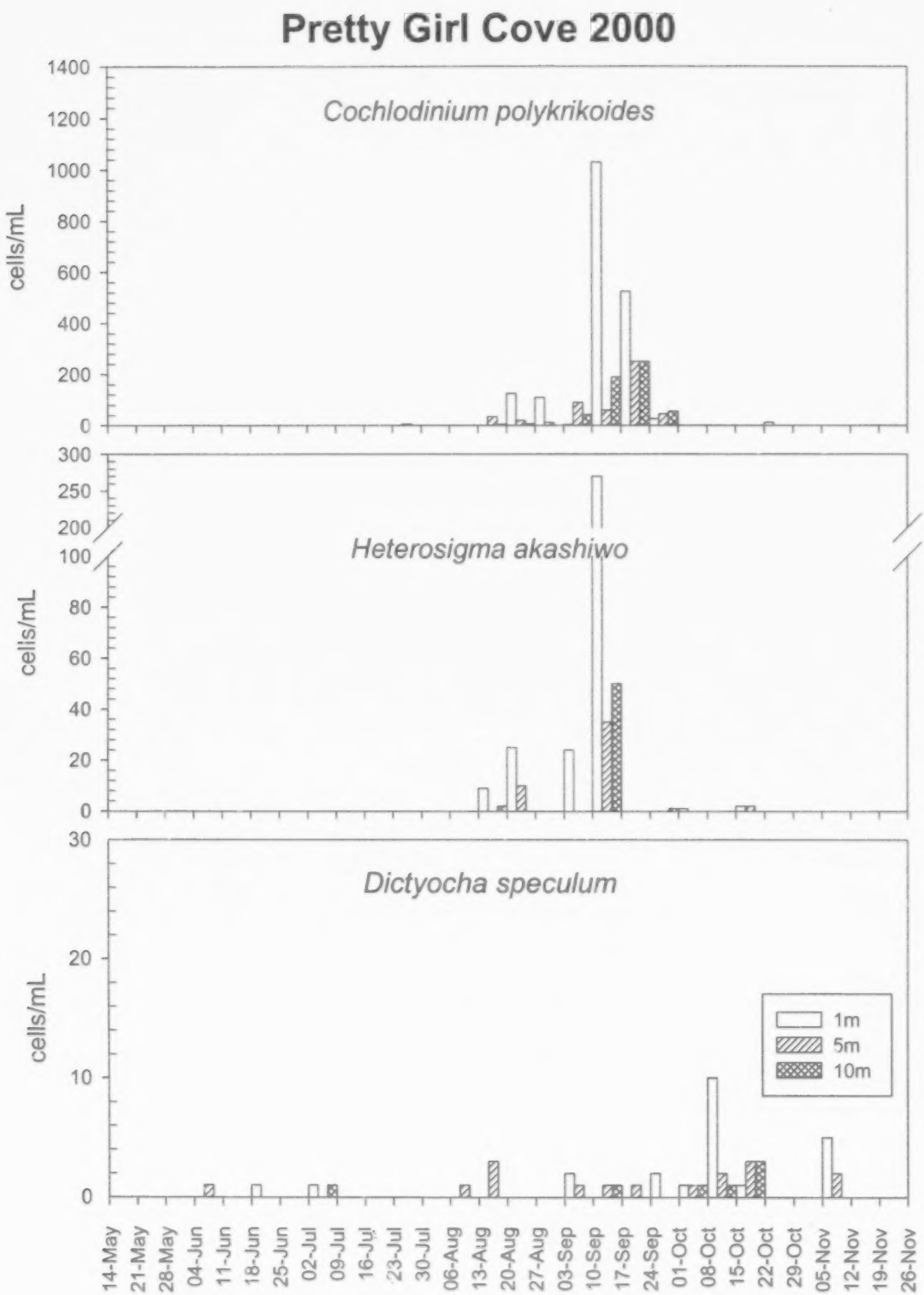

Figure 35: Harmful phytoplankton species in Pretty Girl Cove samples.

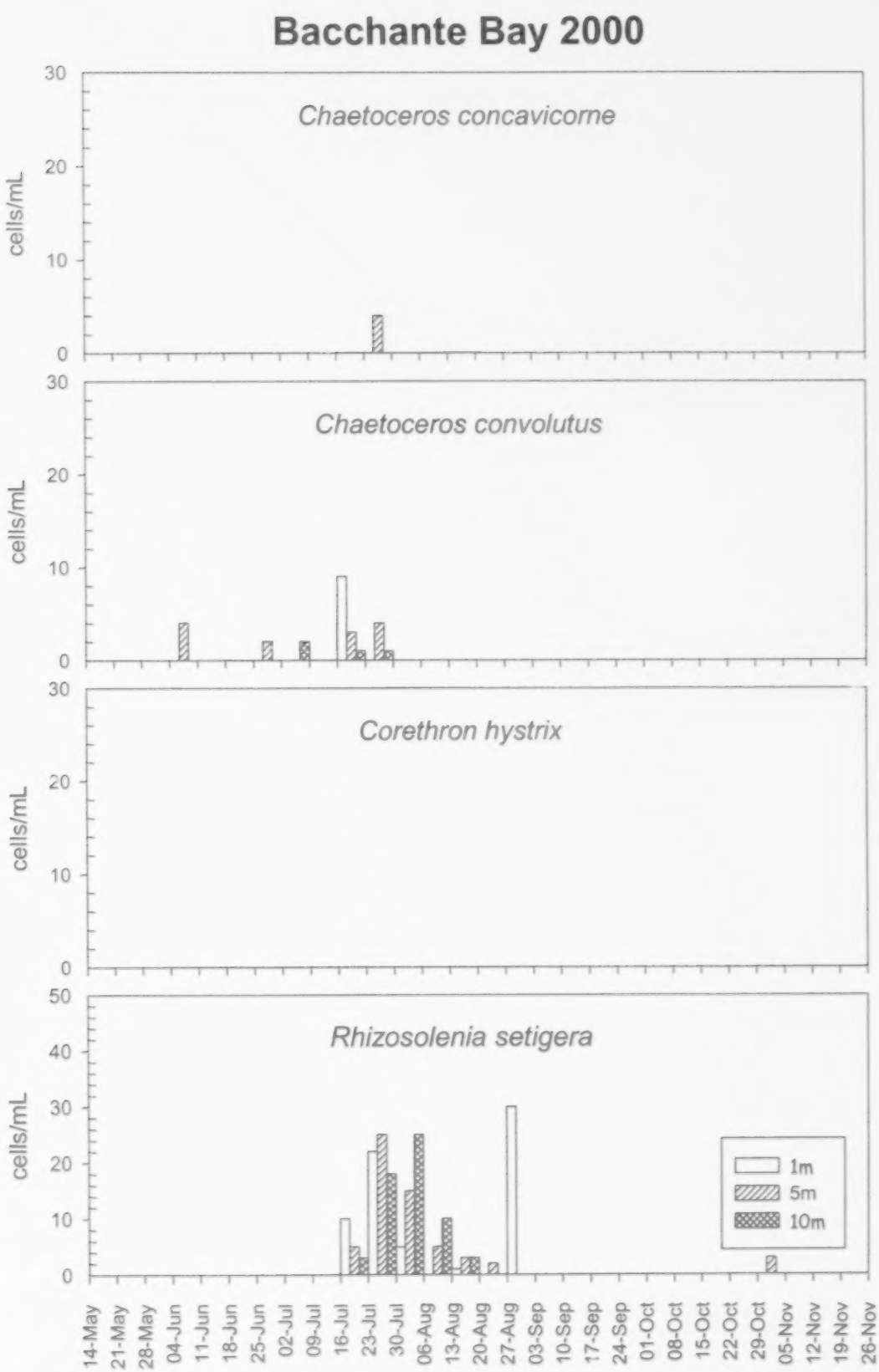

Figure 36: Harmful phytoplankton species in Bacchante Bay samples.

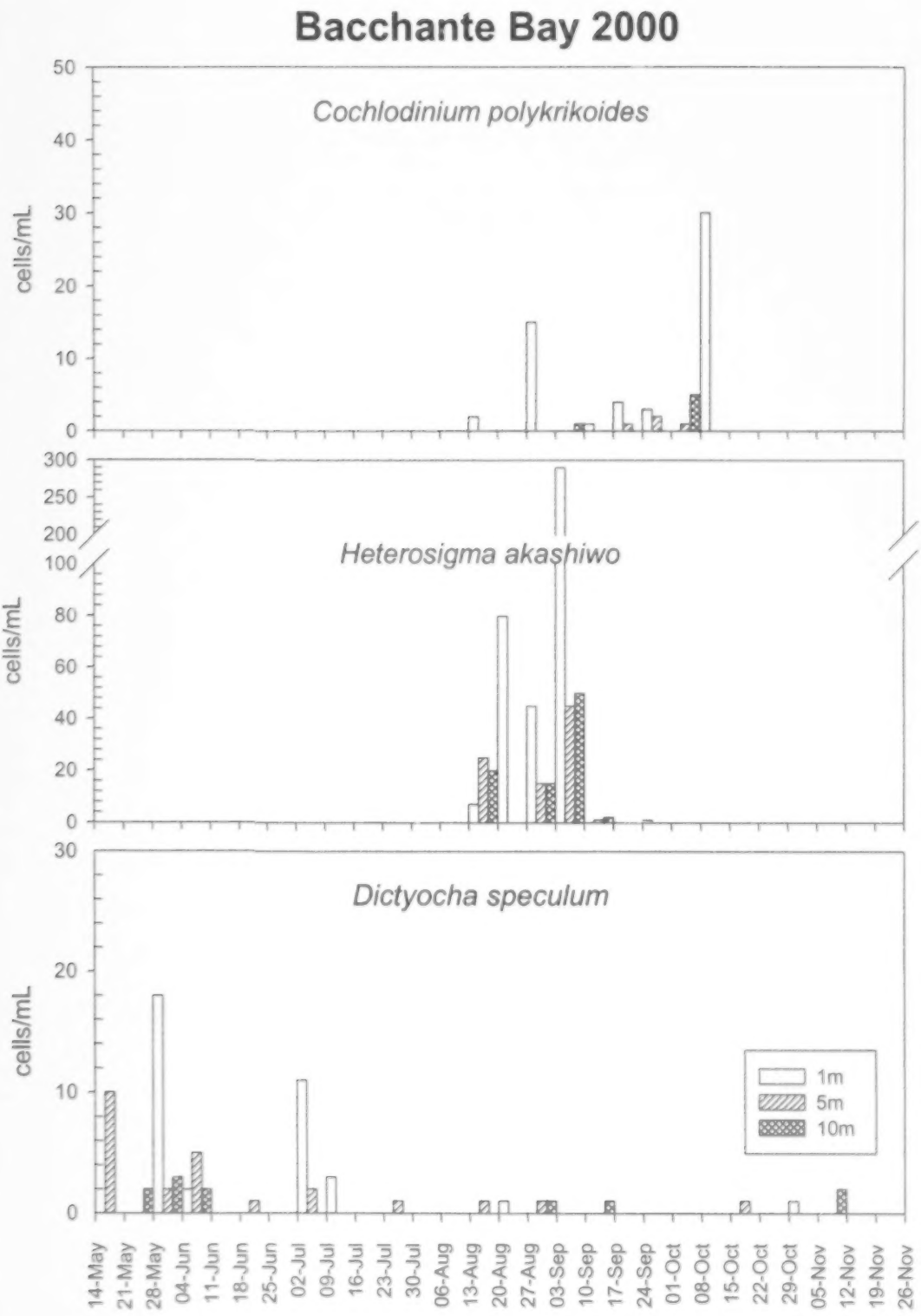

Figure 37: Harmful phytoplankton species in Bacchante Bay samples.

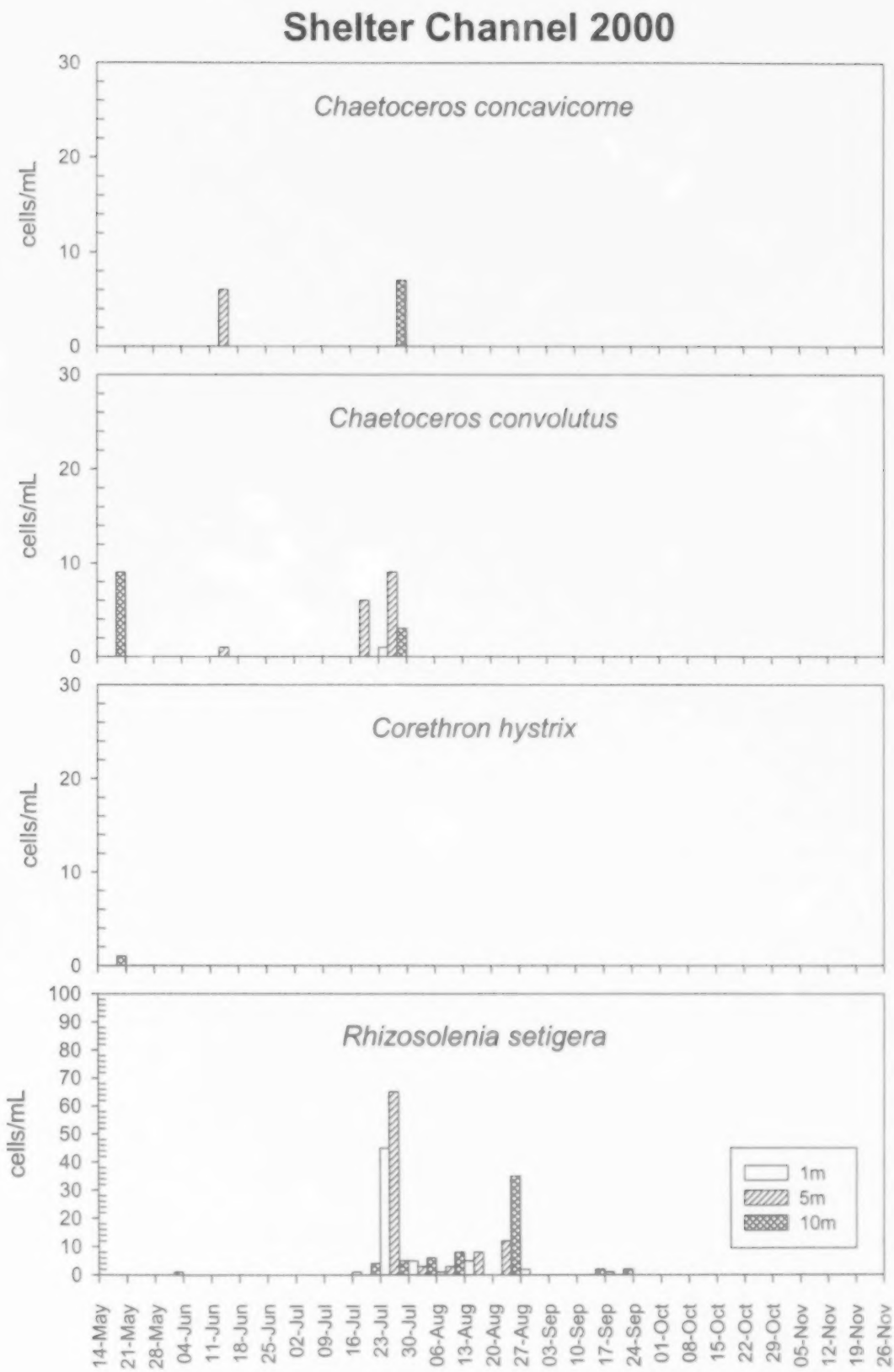

Figure 38: Harmful phytoplankton species in Shelter Channel samples.

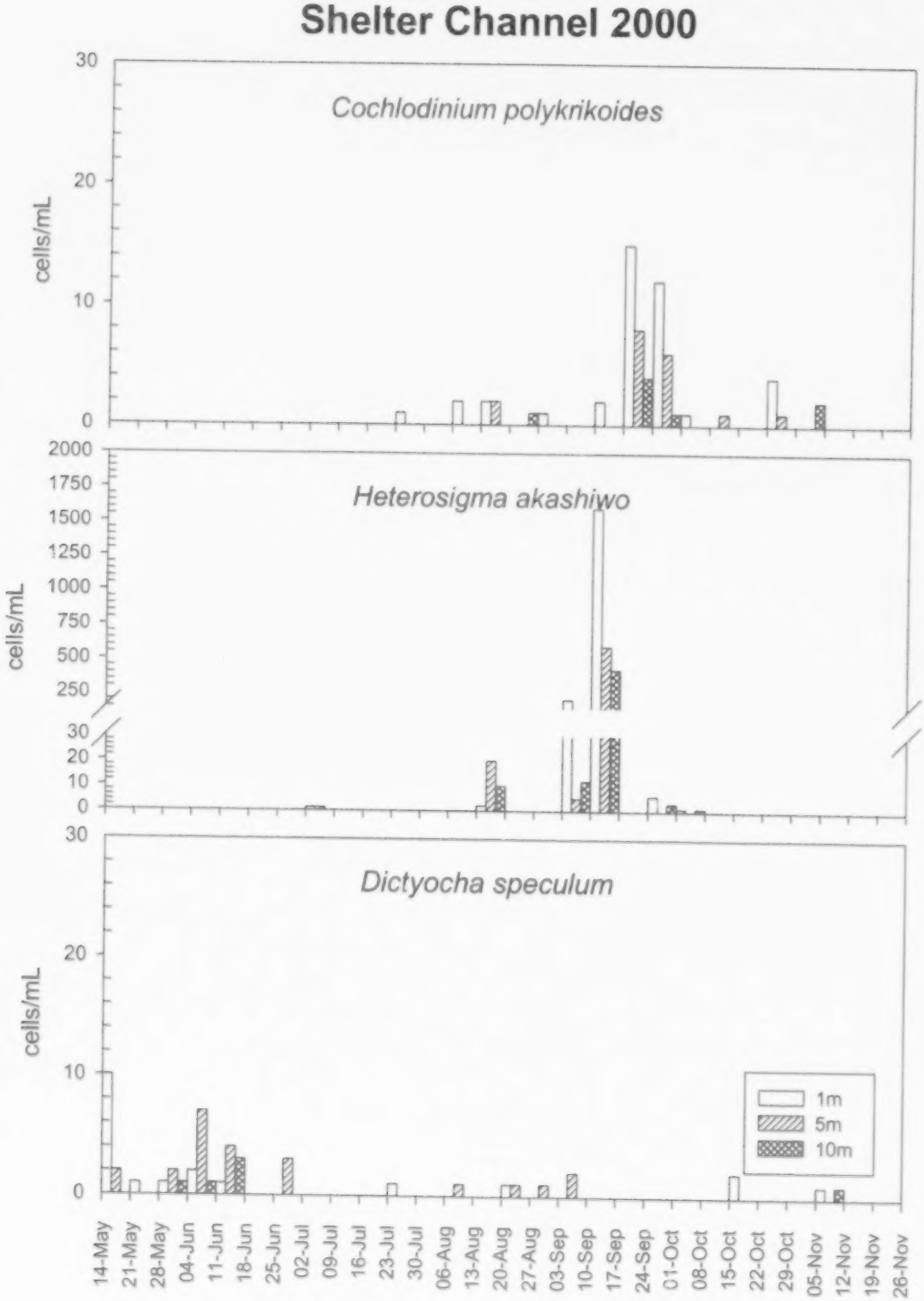

Figure 39: Harmful phytoplankton species in Shelter Channel samples.

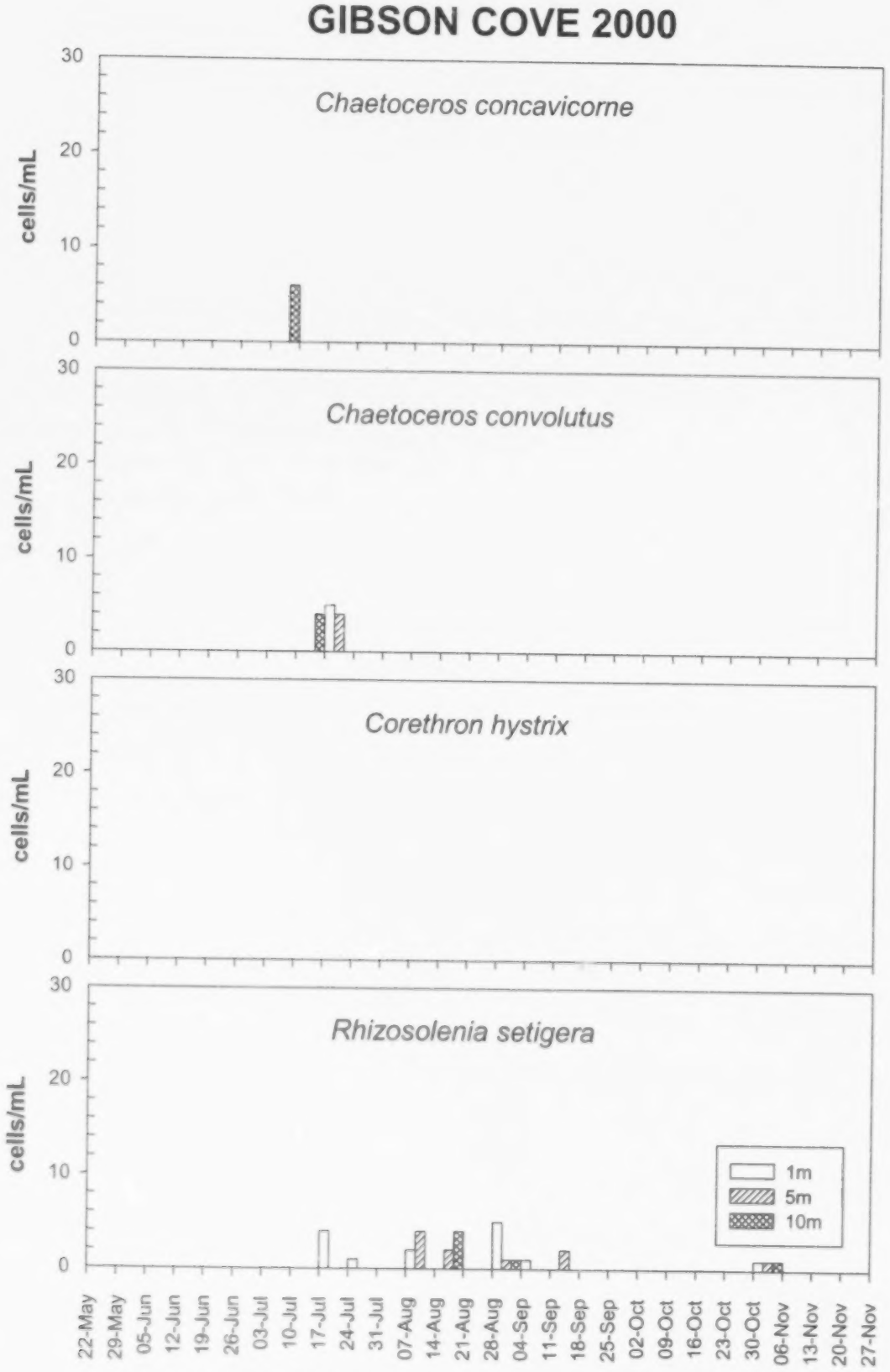

Figure 40: Harmful phytoplankton species in Gibson Cove samples.

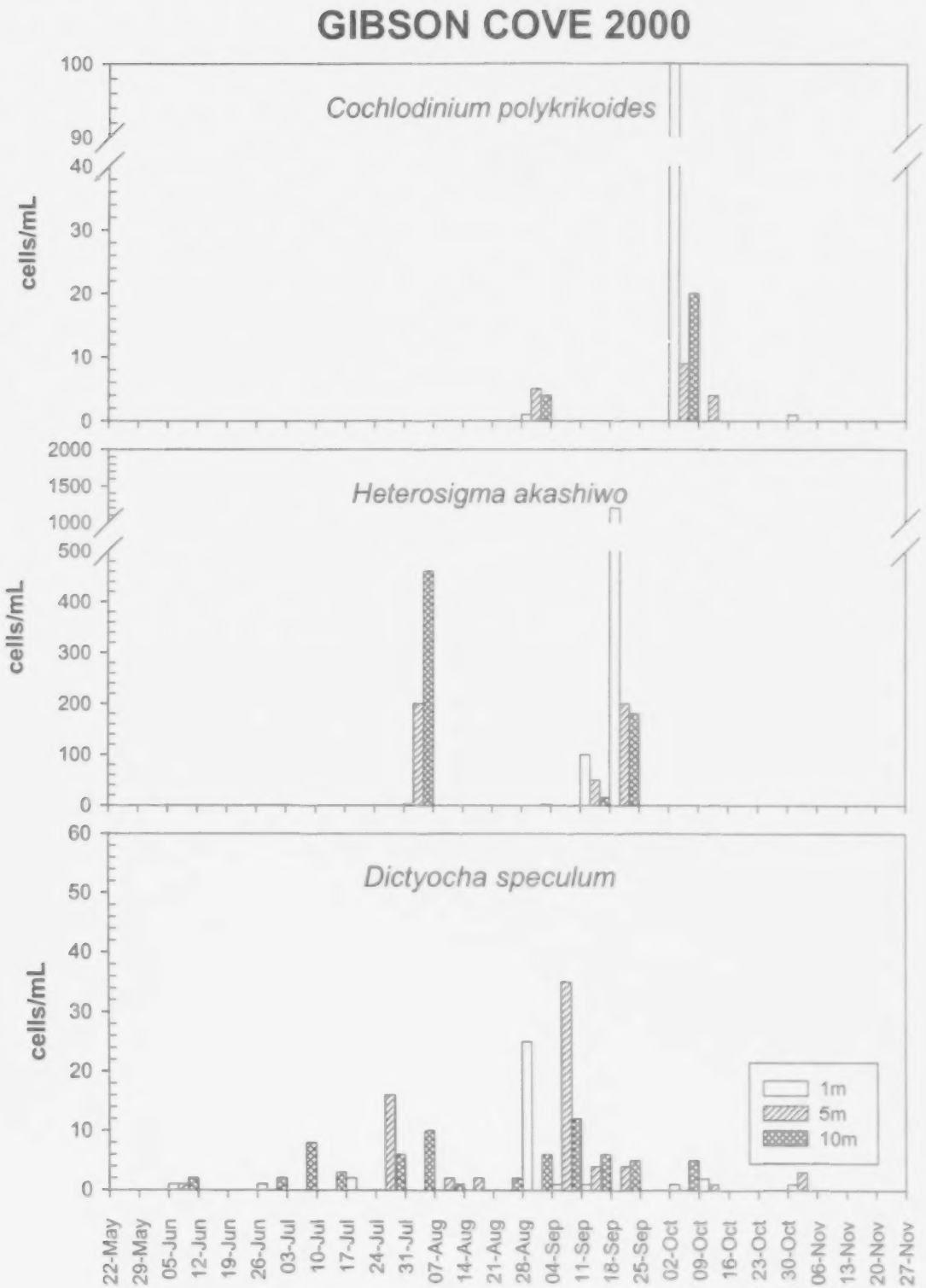

Figure 41: Harmful phytoplankton species in Gibson Cove samples.

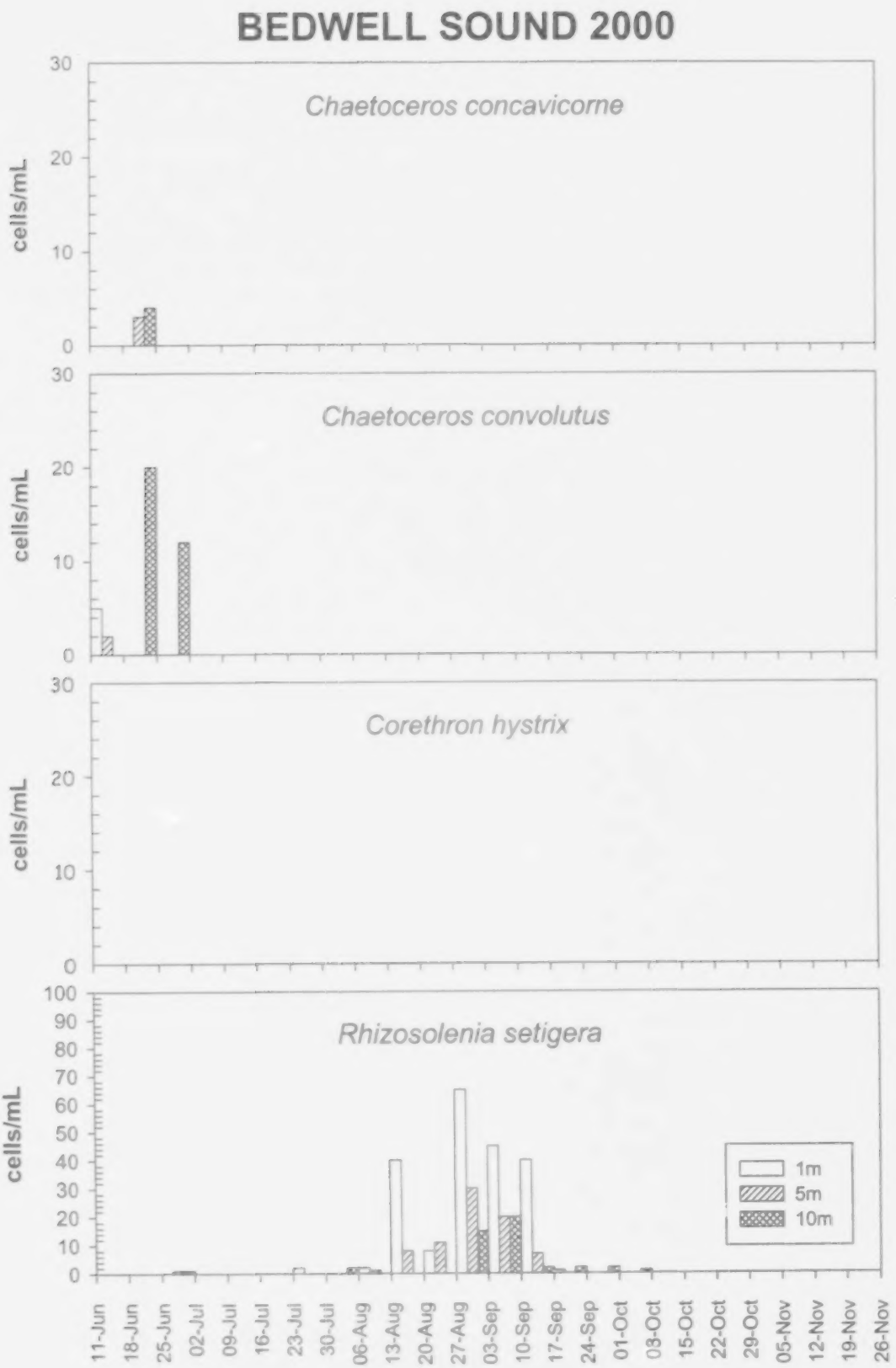

Figure 42: Harmful phytoplankton species in Bedwell Sound samples.

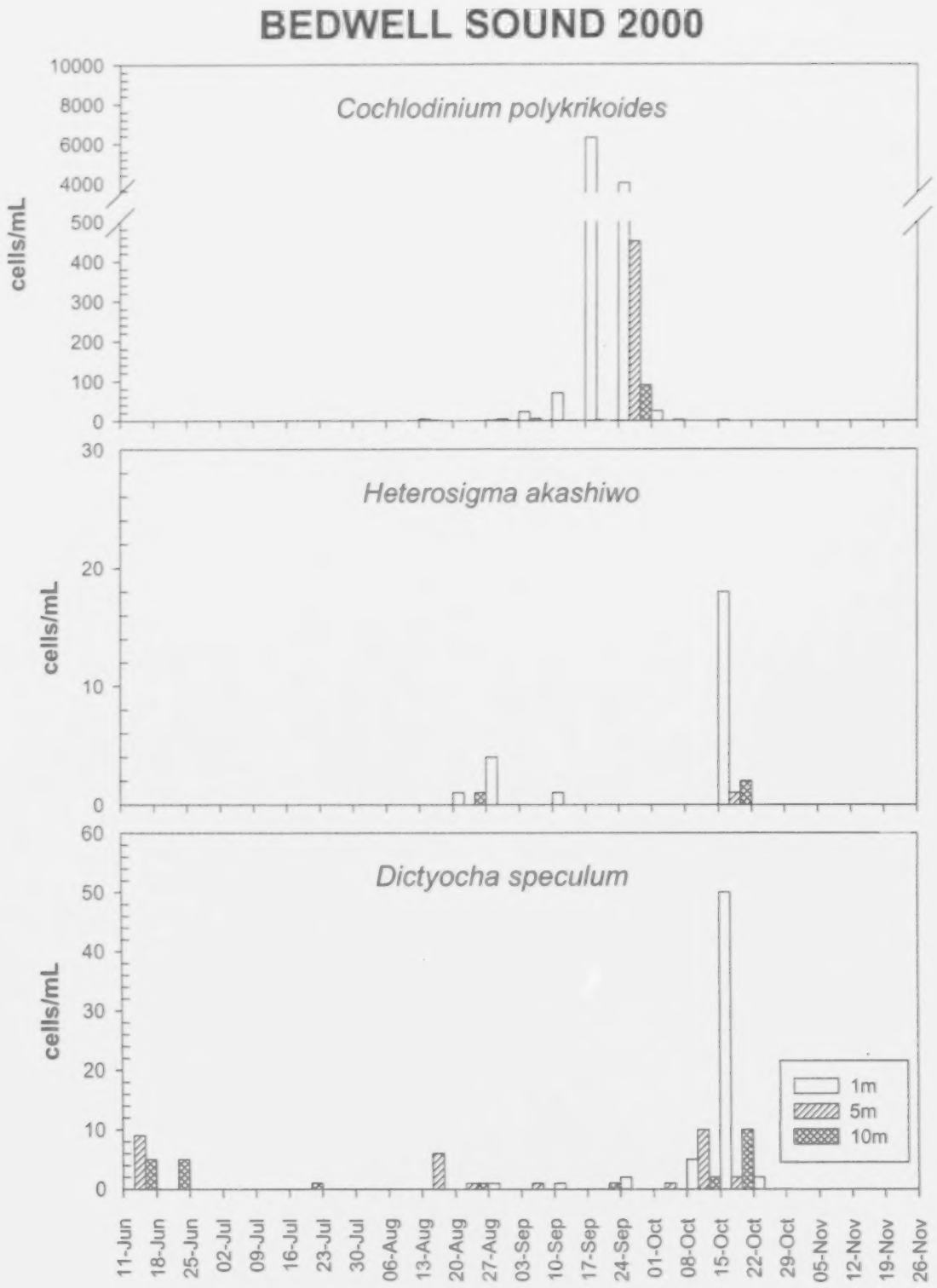

Figure 43: Harmful phytoplankton species in Bedwell Sound samples.

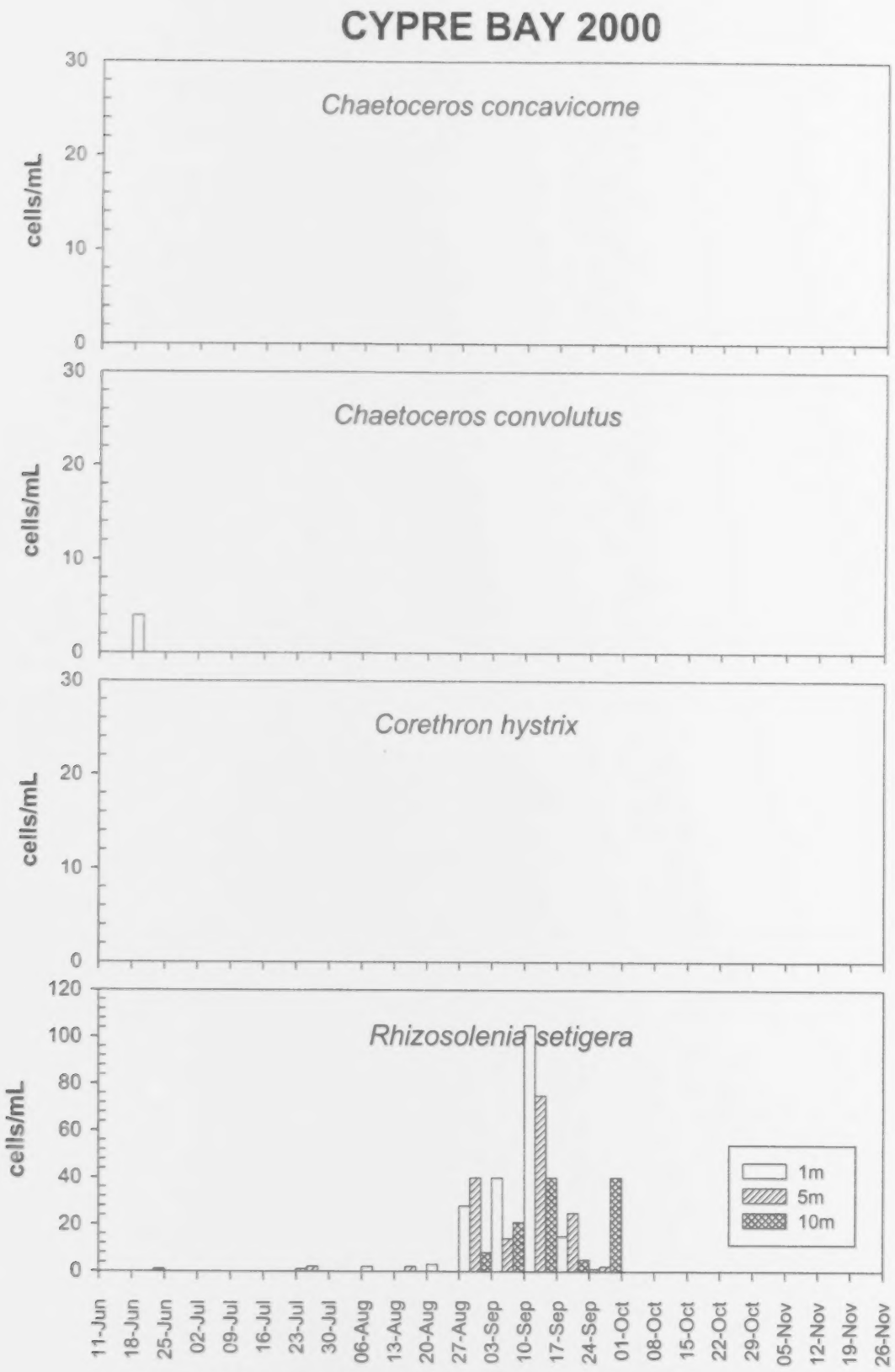

Figure 44: Harmful phytoplanktons species in Cypre Bay samples.

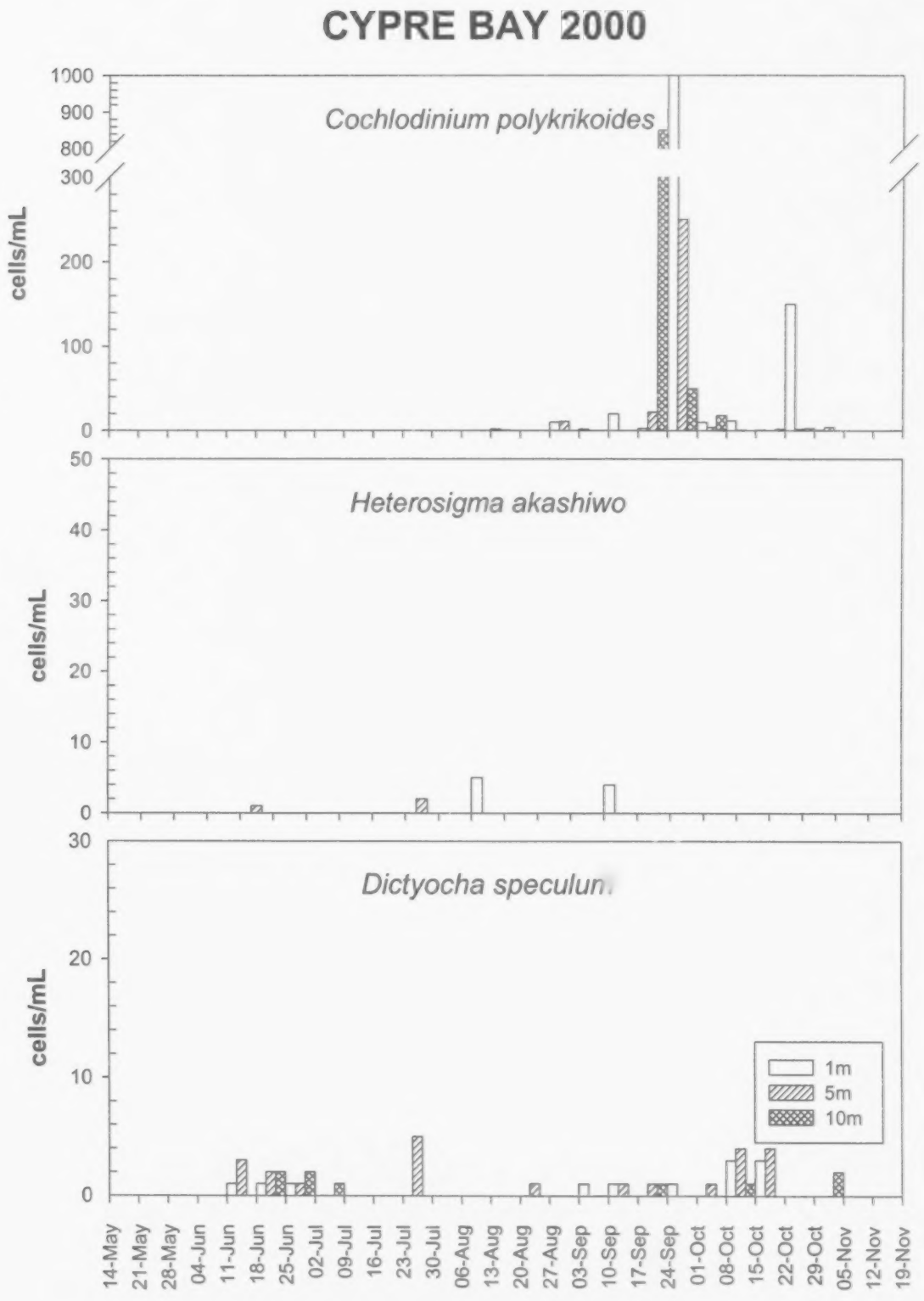

Figure 45: Harmful phytoplankton species in Cypre Bay species.

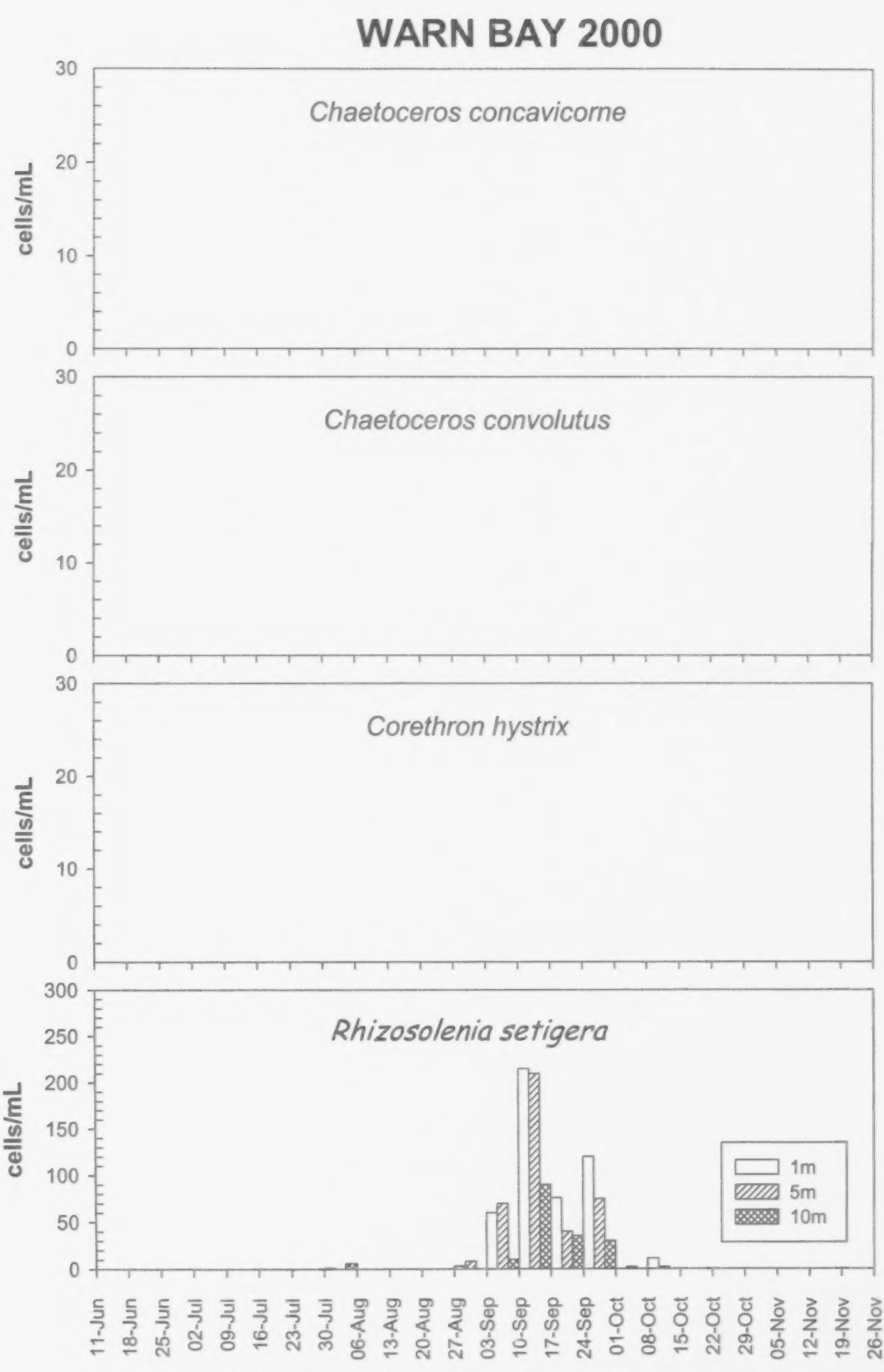

Figure 46: Harmful phytoplankton species in Warn Bay samples.

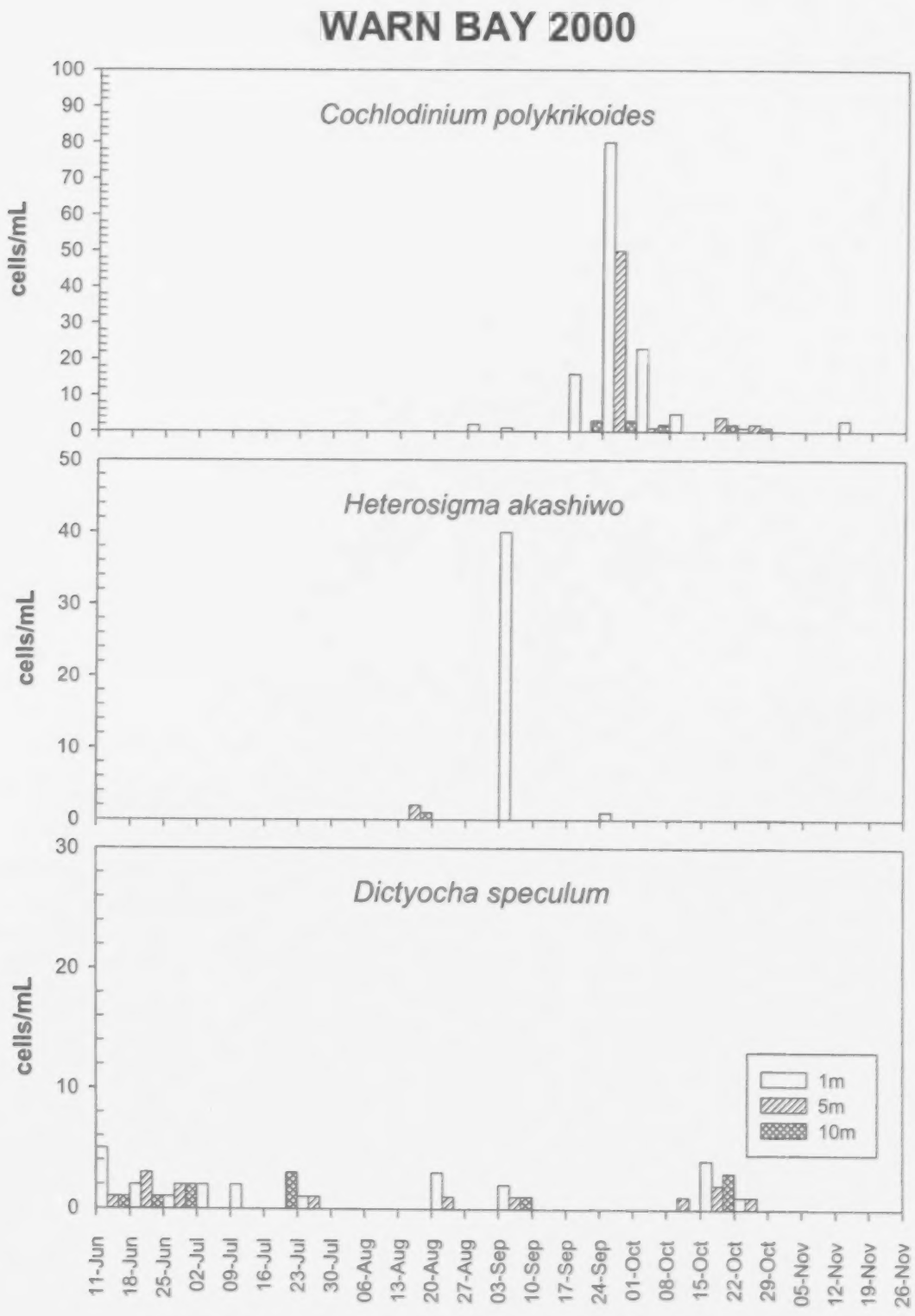

Figure 47: Harmful phytoplankton species in Warn Bay samples.

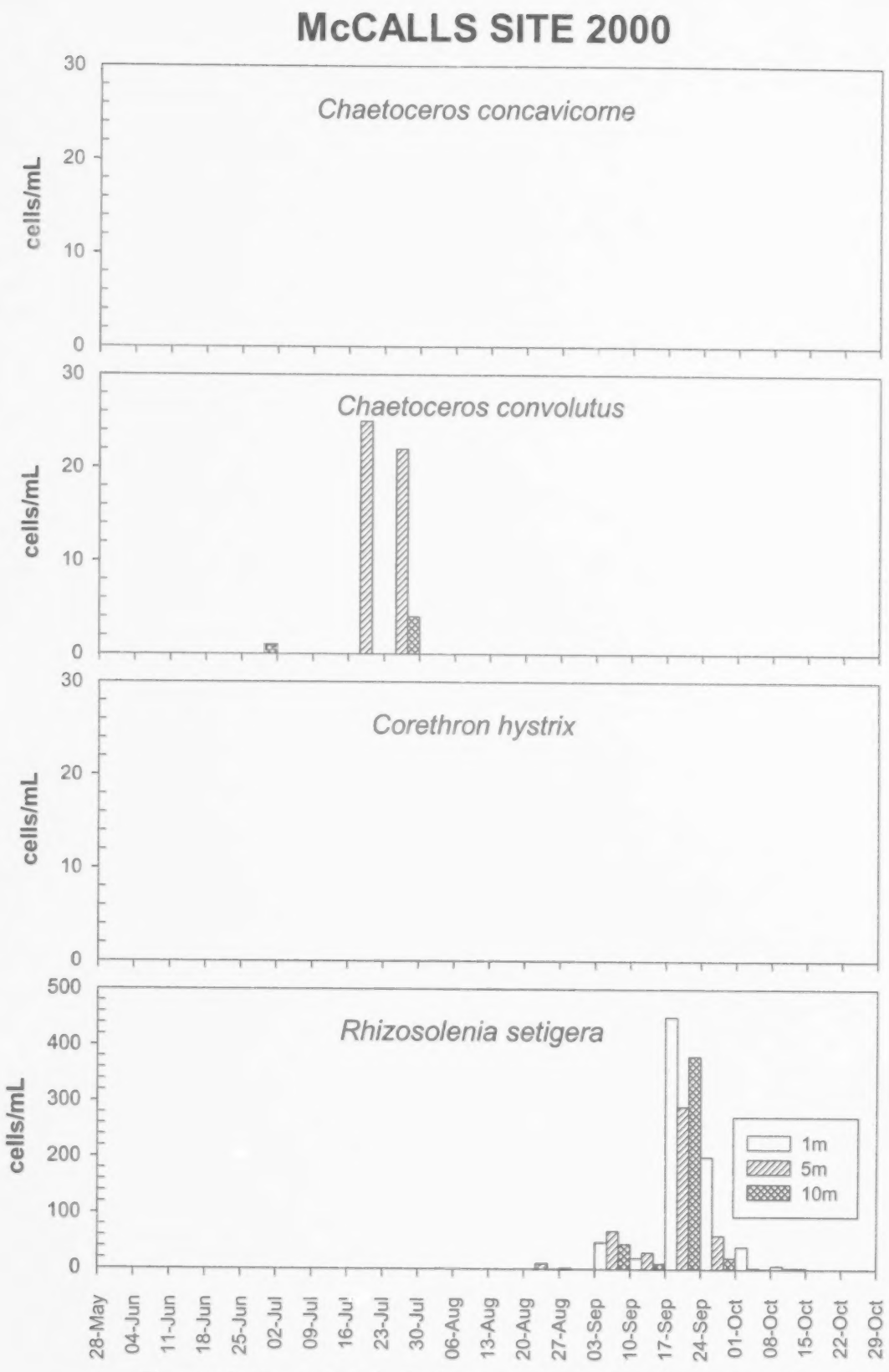

Figure 48: Harmful phytoplankton species in McCalls site samples.

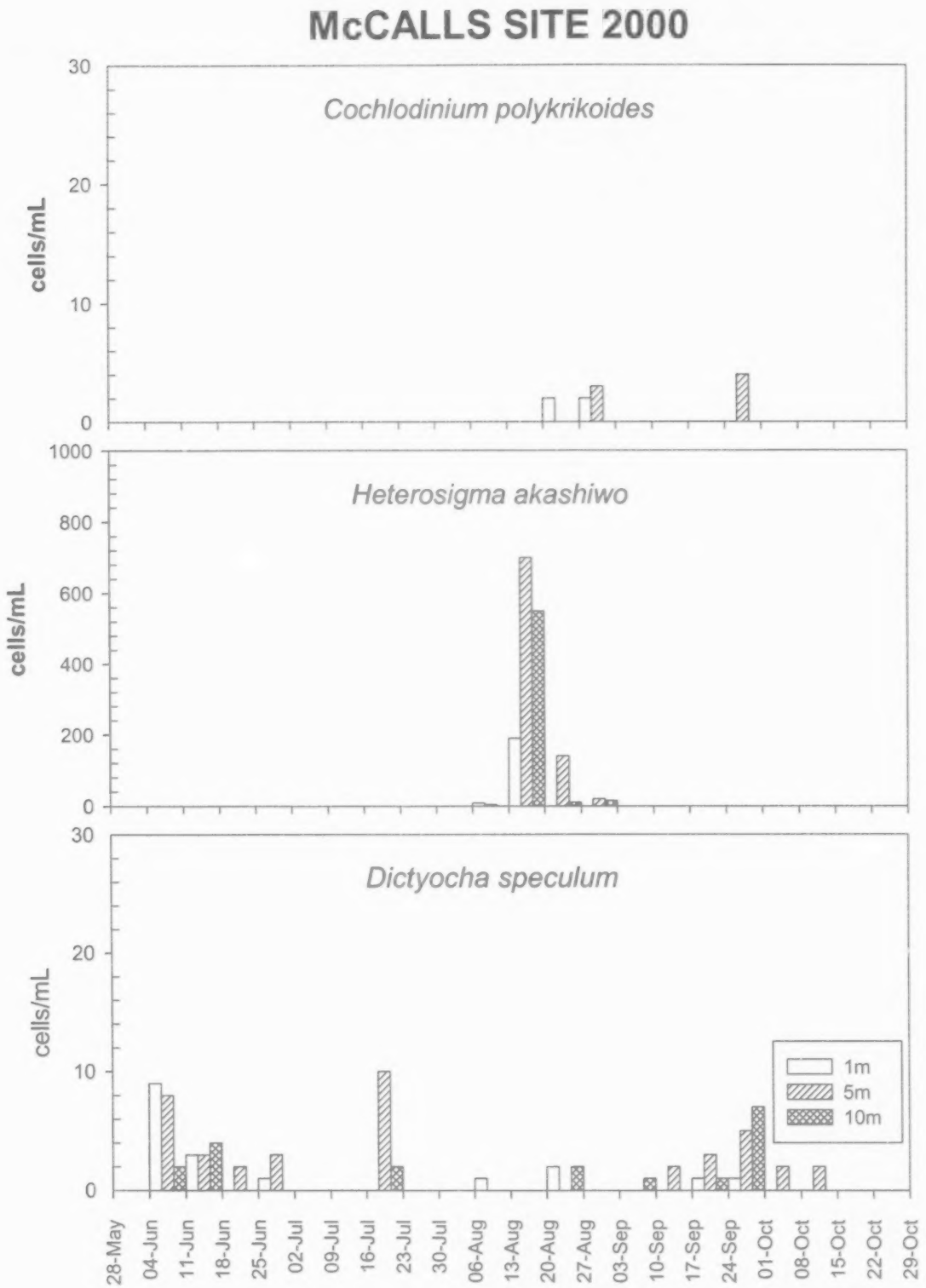

Figure 49: Harmful phytoplankton species in McCalls site samples.

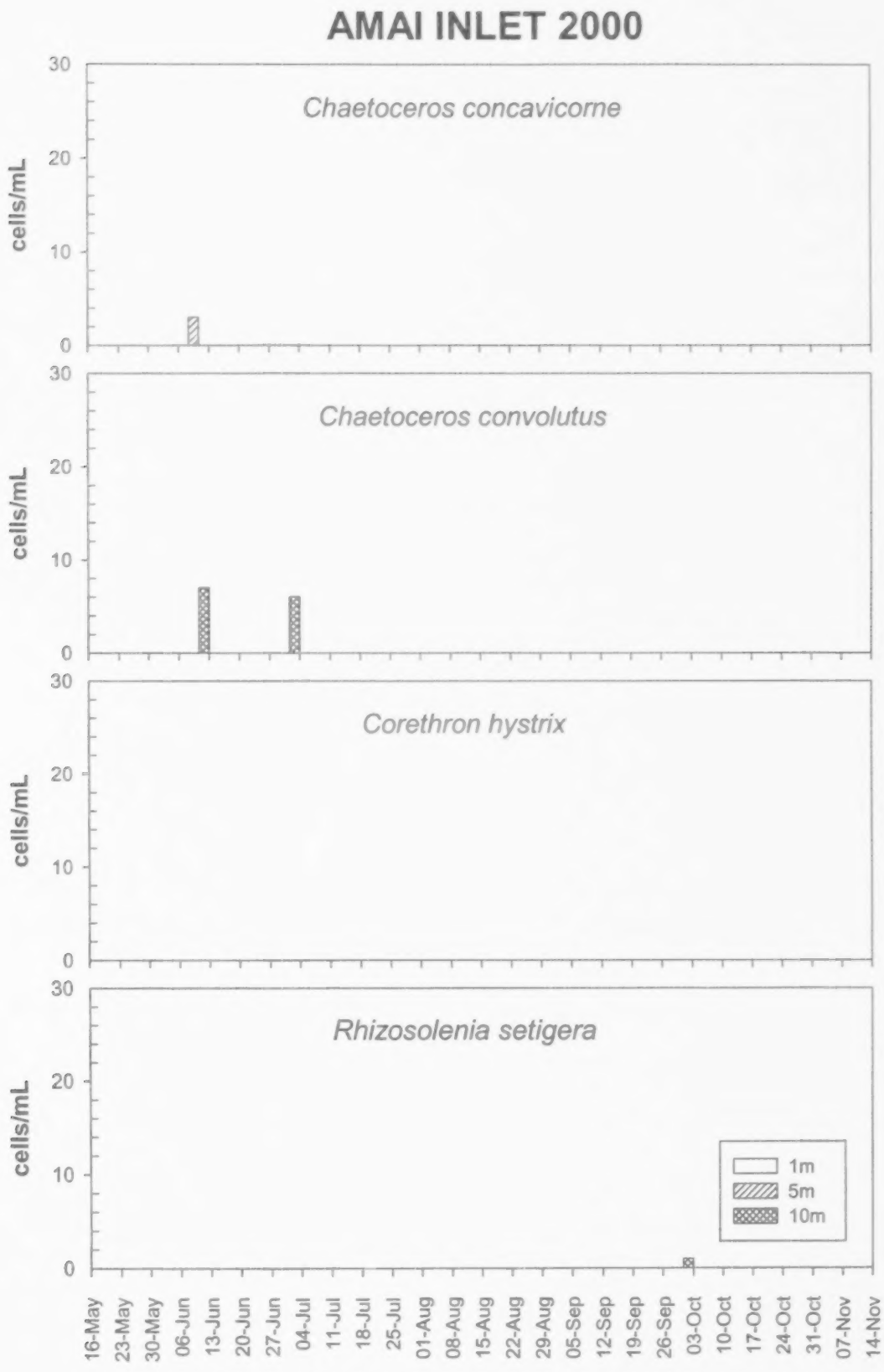

Figure 50: Harmful phytoplankton species in Amai Inlet samples.

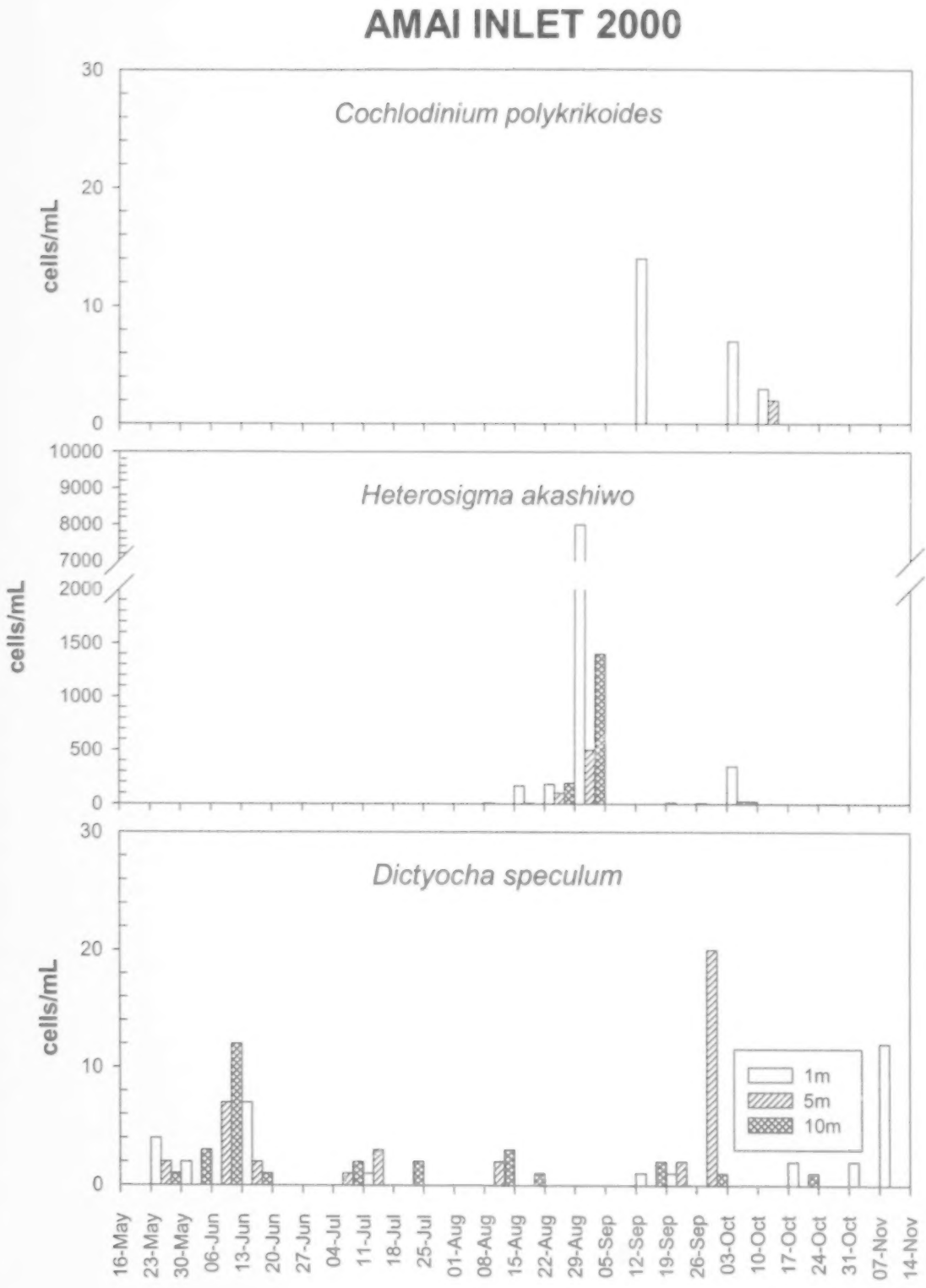

Figure 51: Harmful phytoplankton species in Amai Inlet samples.

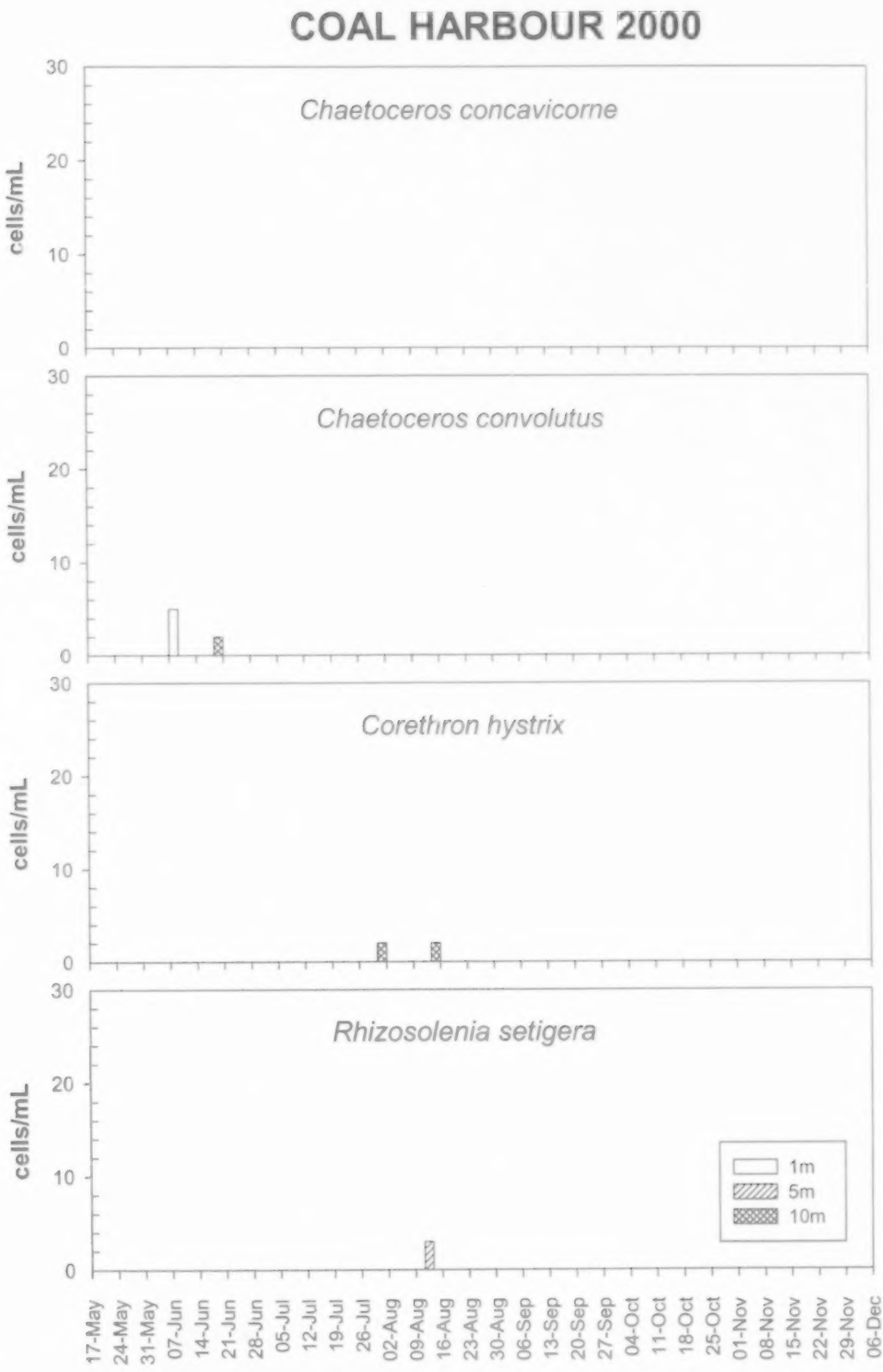

Figure 52: Harmful phytoplankton species in Coal Harbour samples.

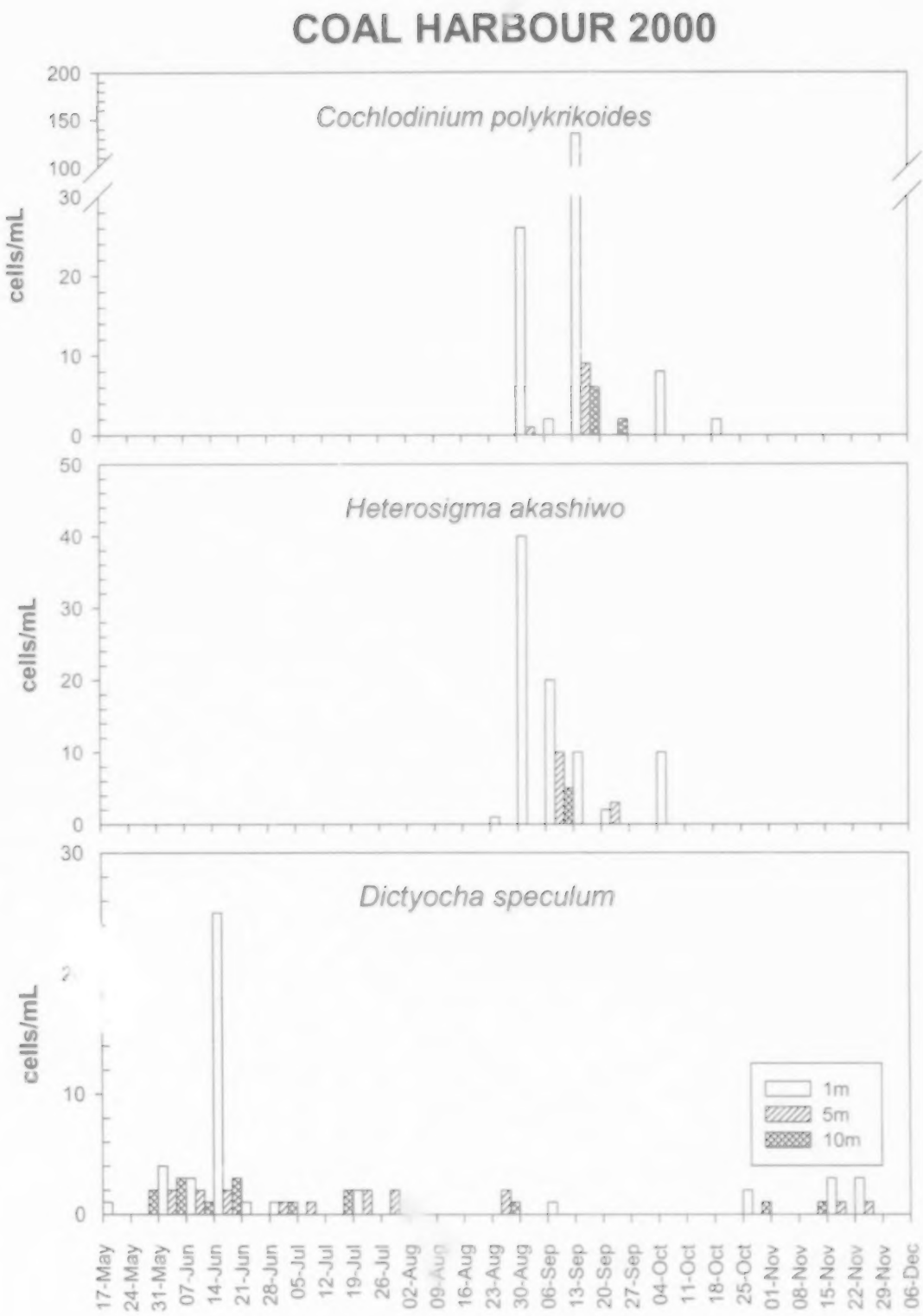

Figure 53: Harmful phytoplankton species in Coal Harbour samples.

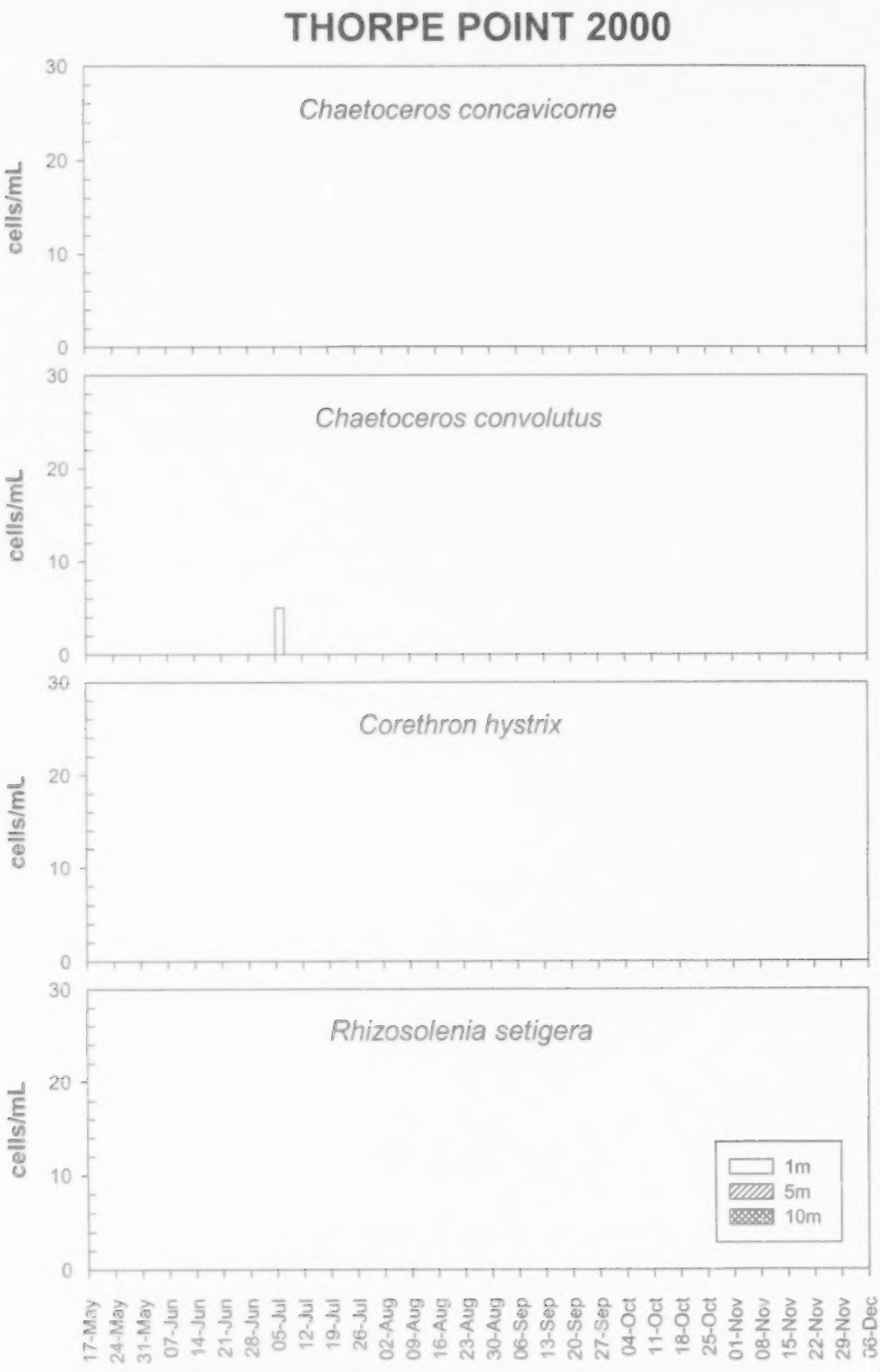

Figure 54: Harmful phytoplankton species in Thorpe Point samples.

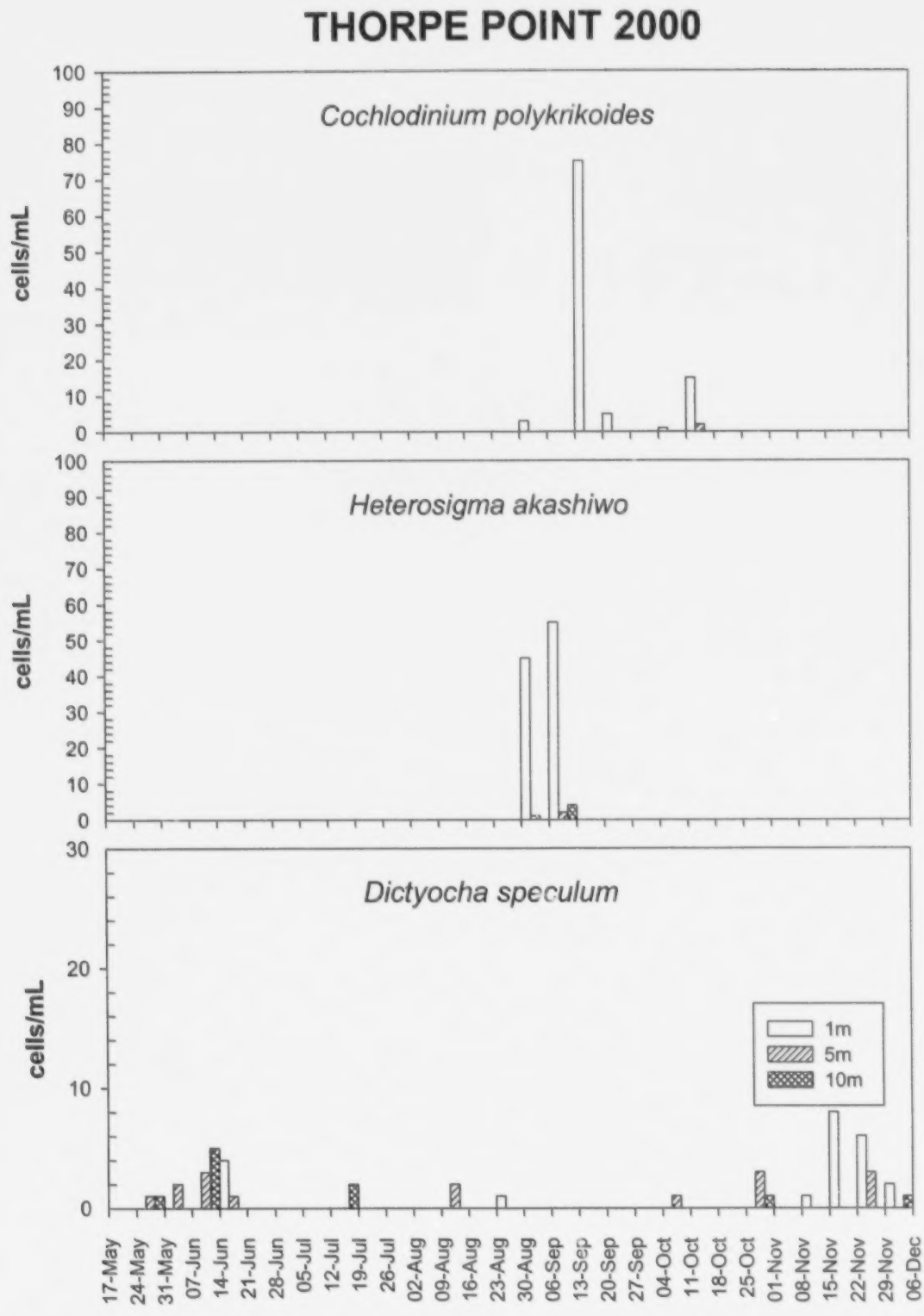

Figure 55: Harmful phytoplankton species in Thorpe Point samples.

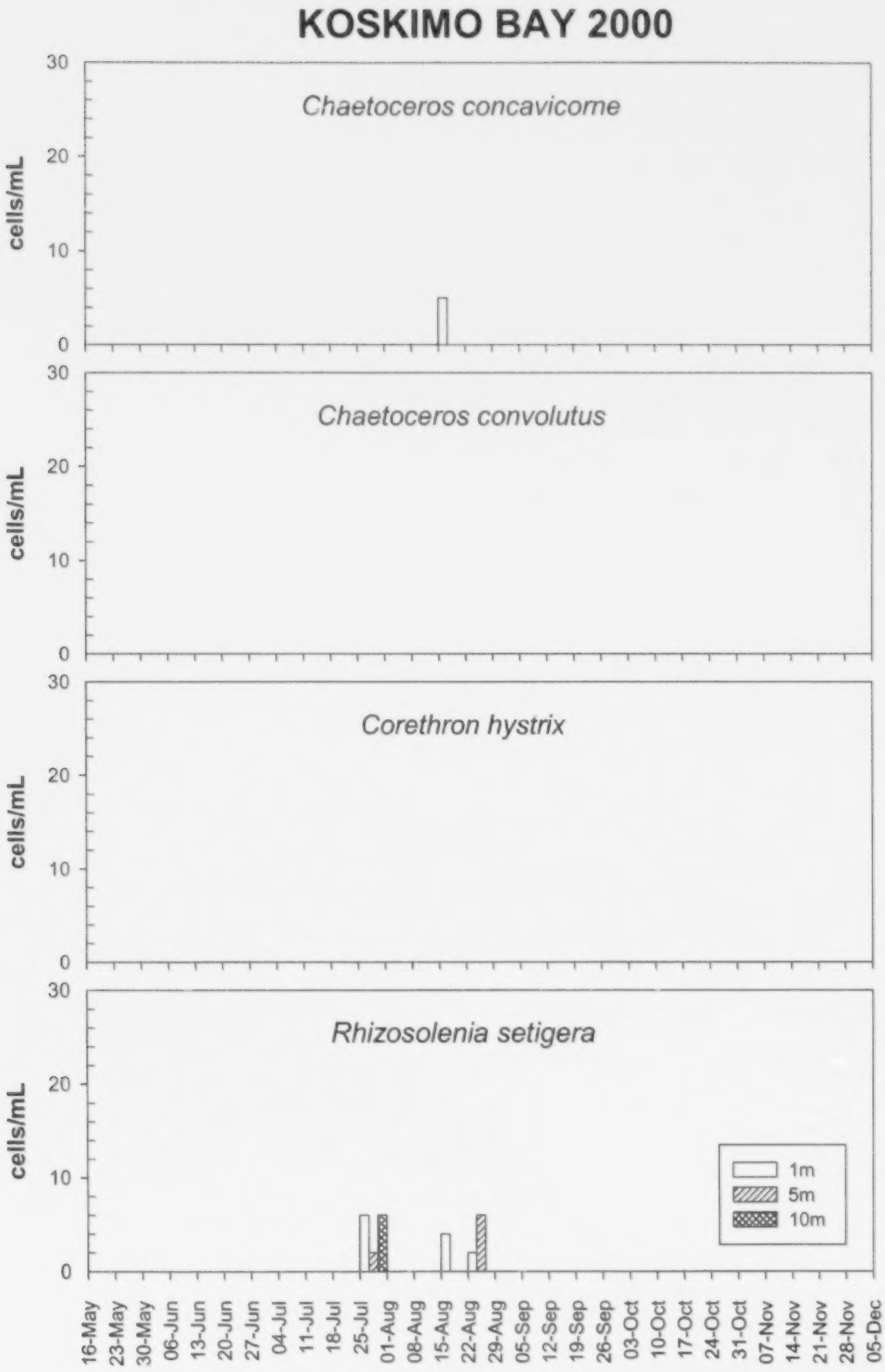

Figure 56: Harmful phytoplankton species in Koskimo Bay samples.

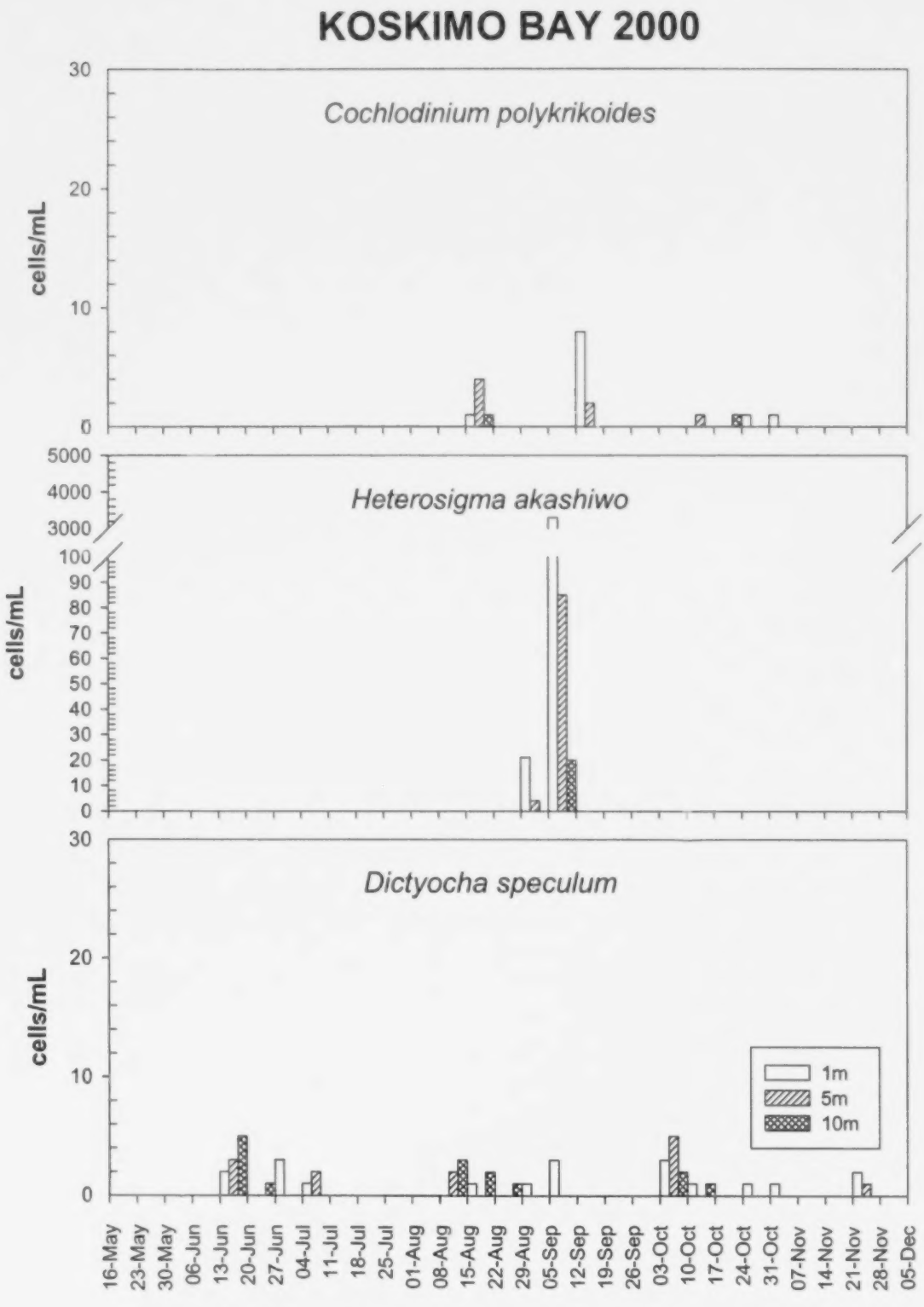

Figure 57: Harmful phytoplankton species in Koskimo Bay samples.

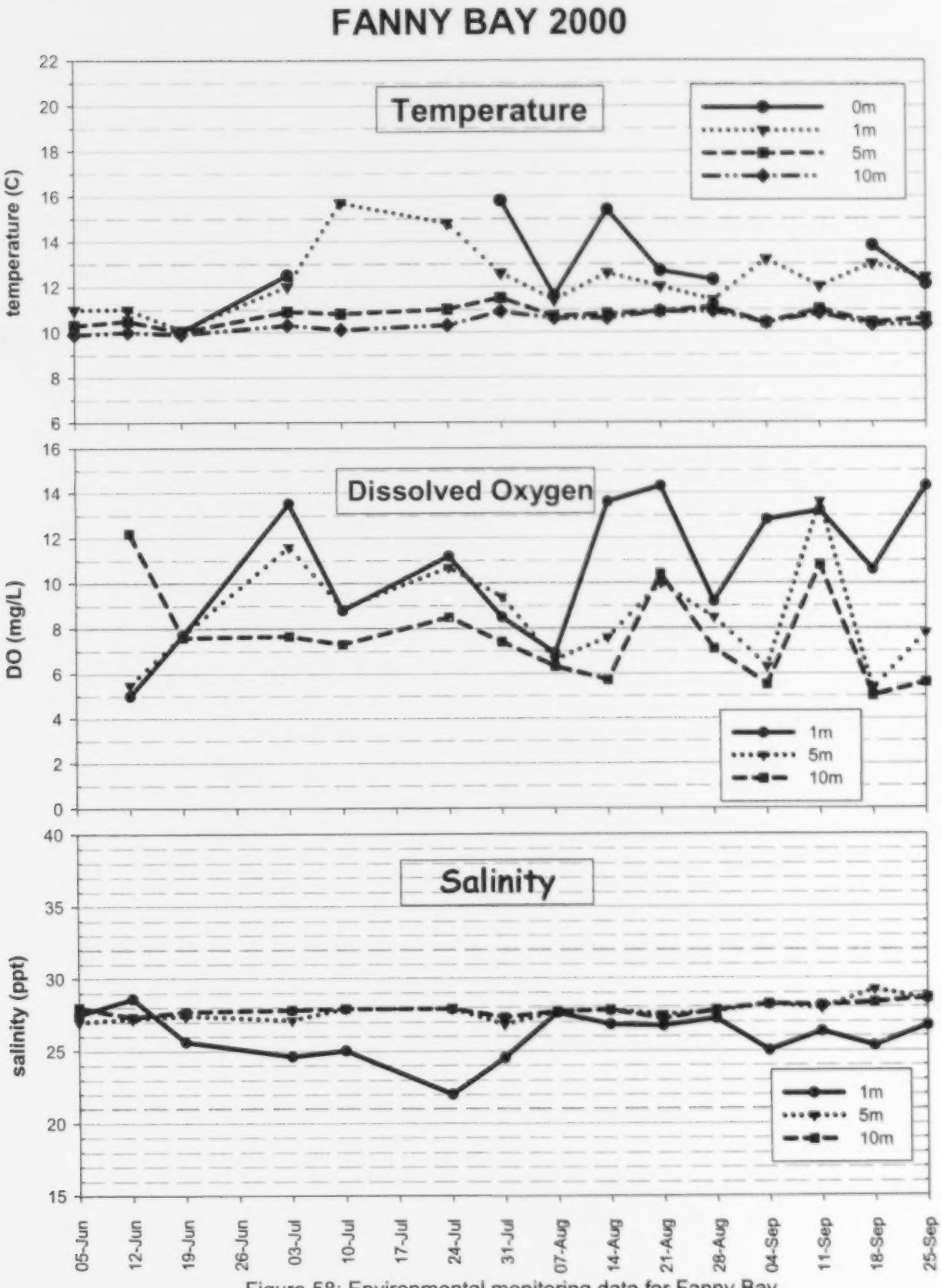

Figure 58: Environmental monitoring data for Fanny Bay.

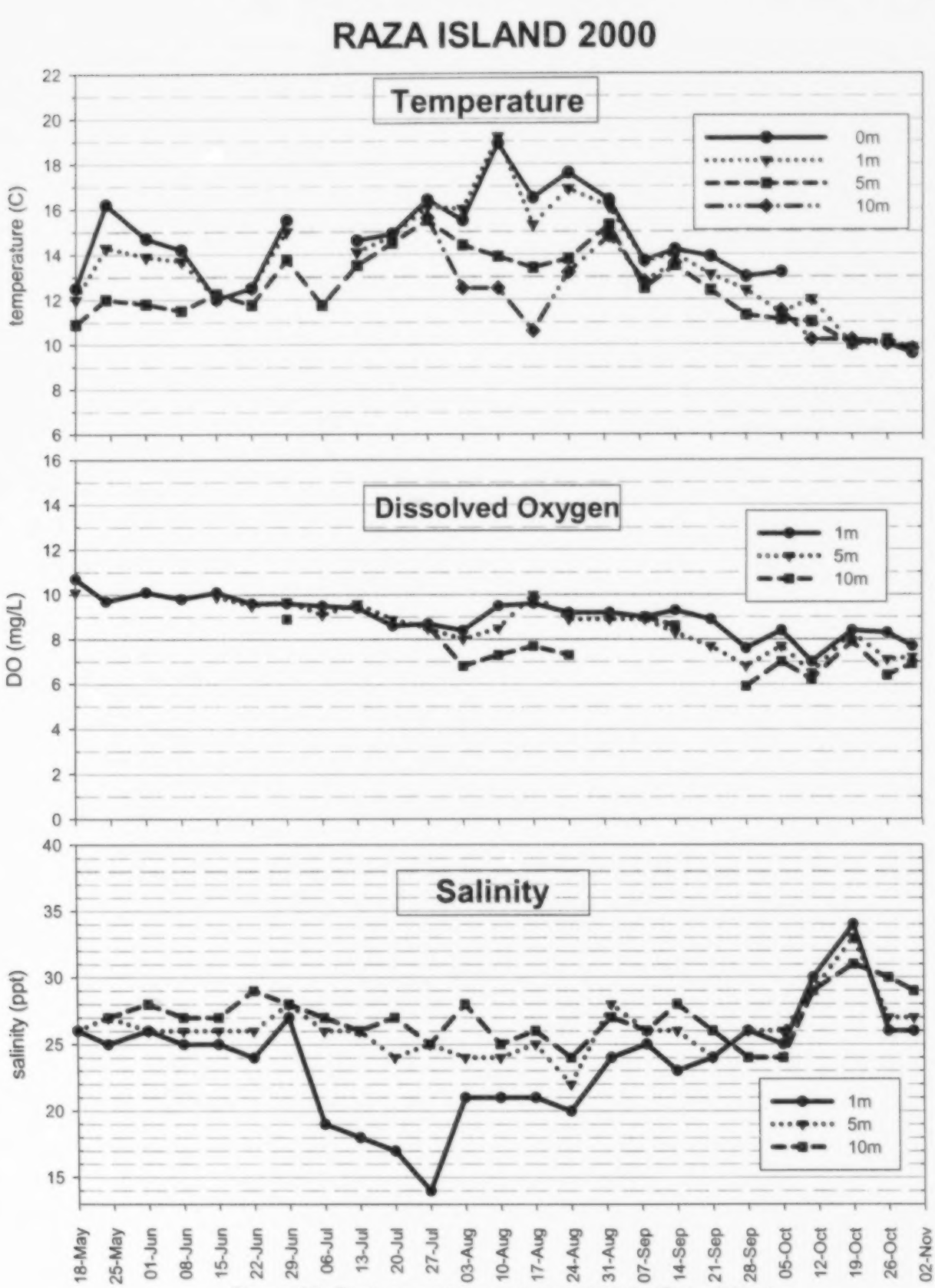

Figure 59: Environmental monitoring data for Raza Island.

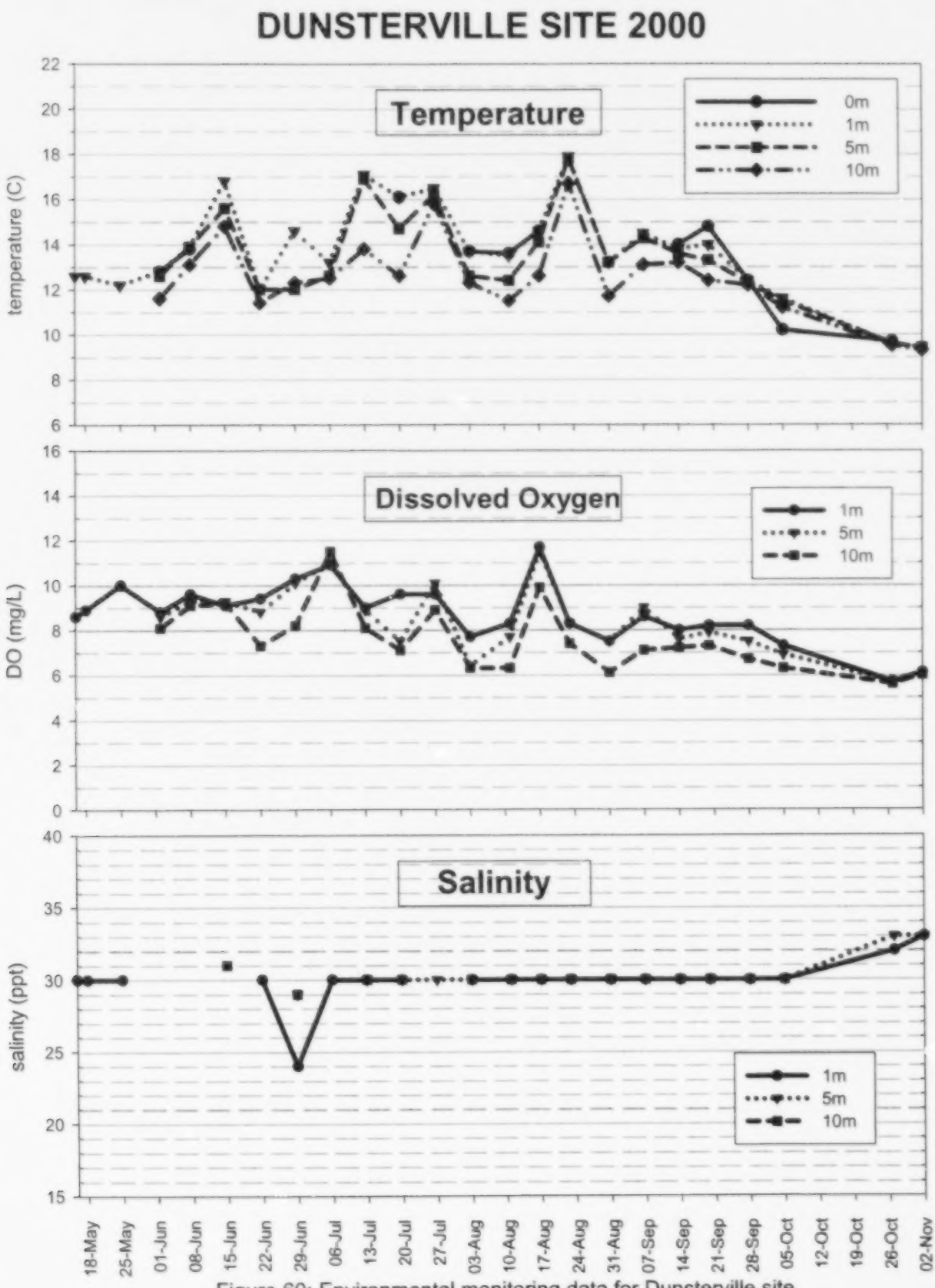

Figure 60: Environmental monitoring data for Dunsterville site.

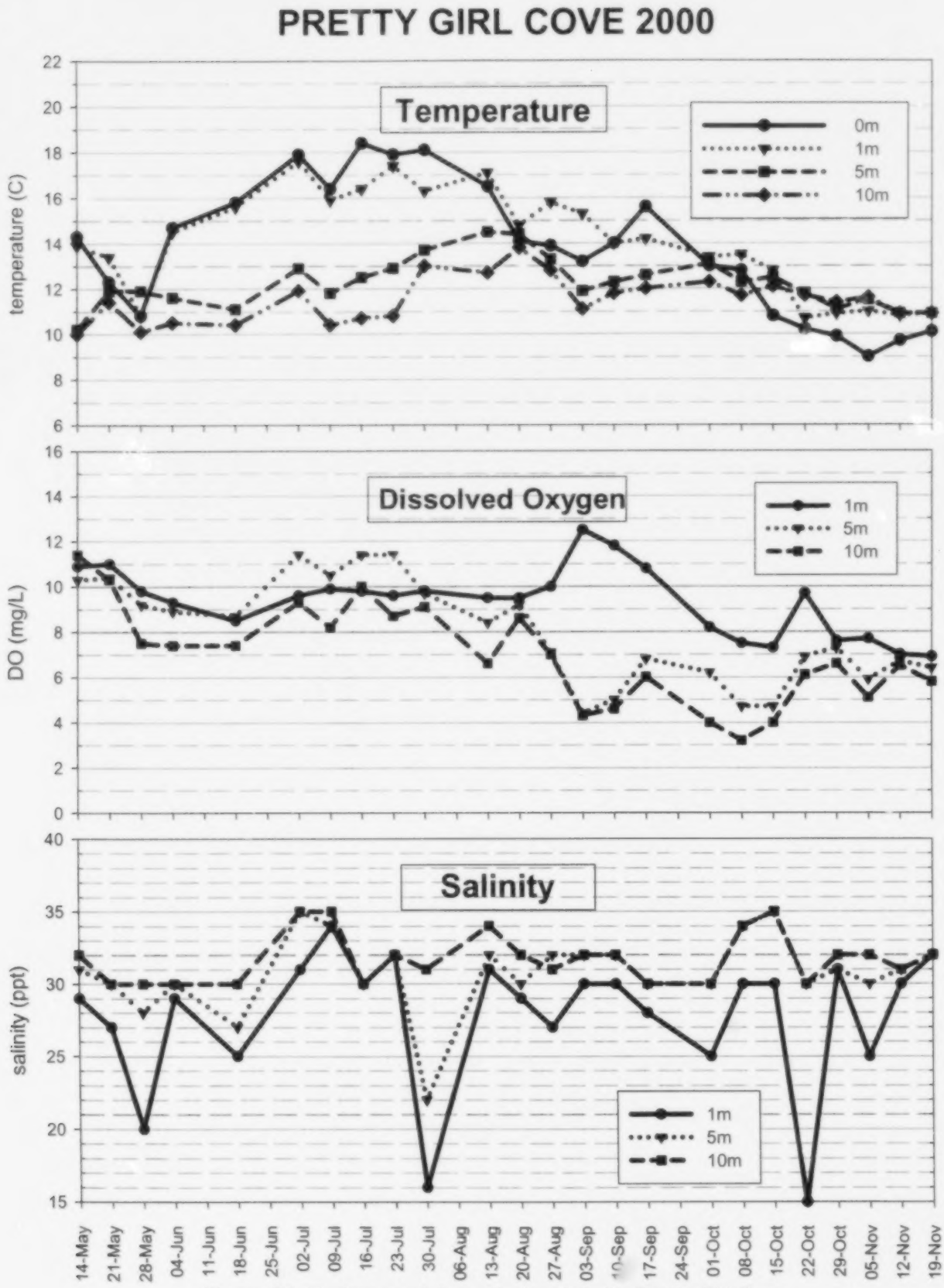

Figure 61: Environmental monitoring data for Pretty Girl Cove.

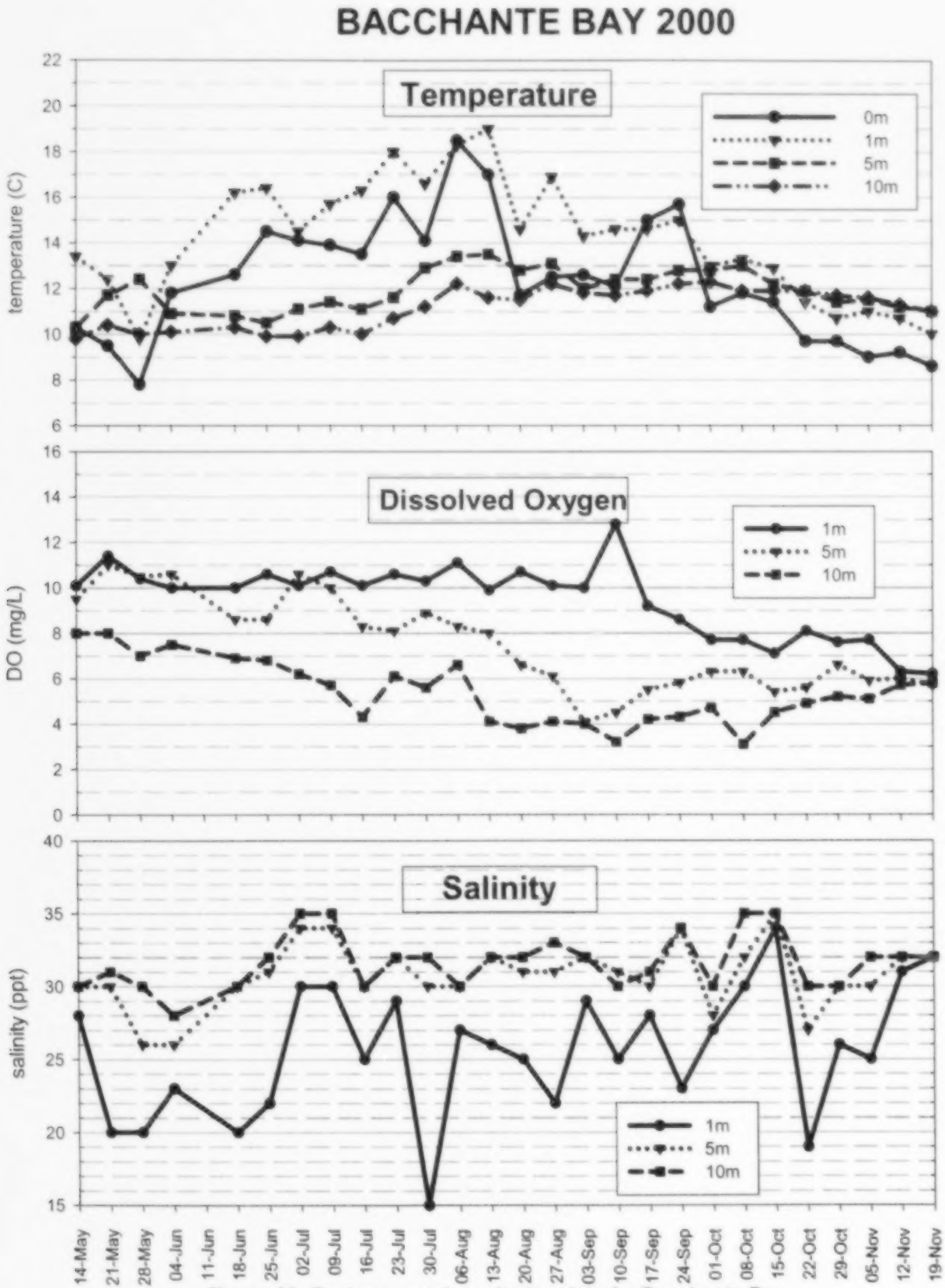

Figure 62: Environmental monitoring data for Bacchante Bay.

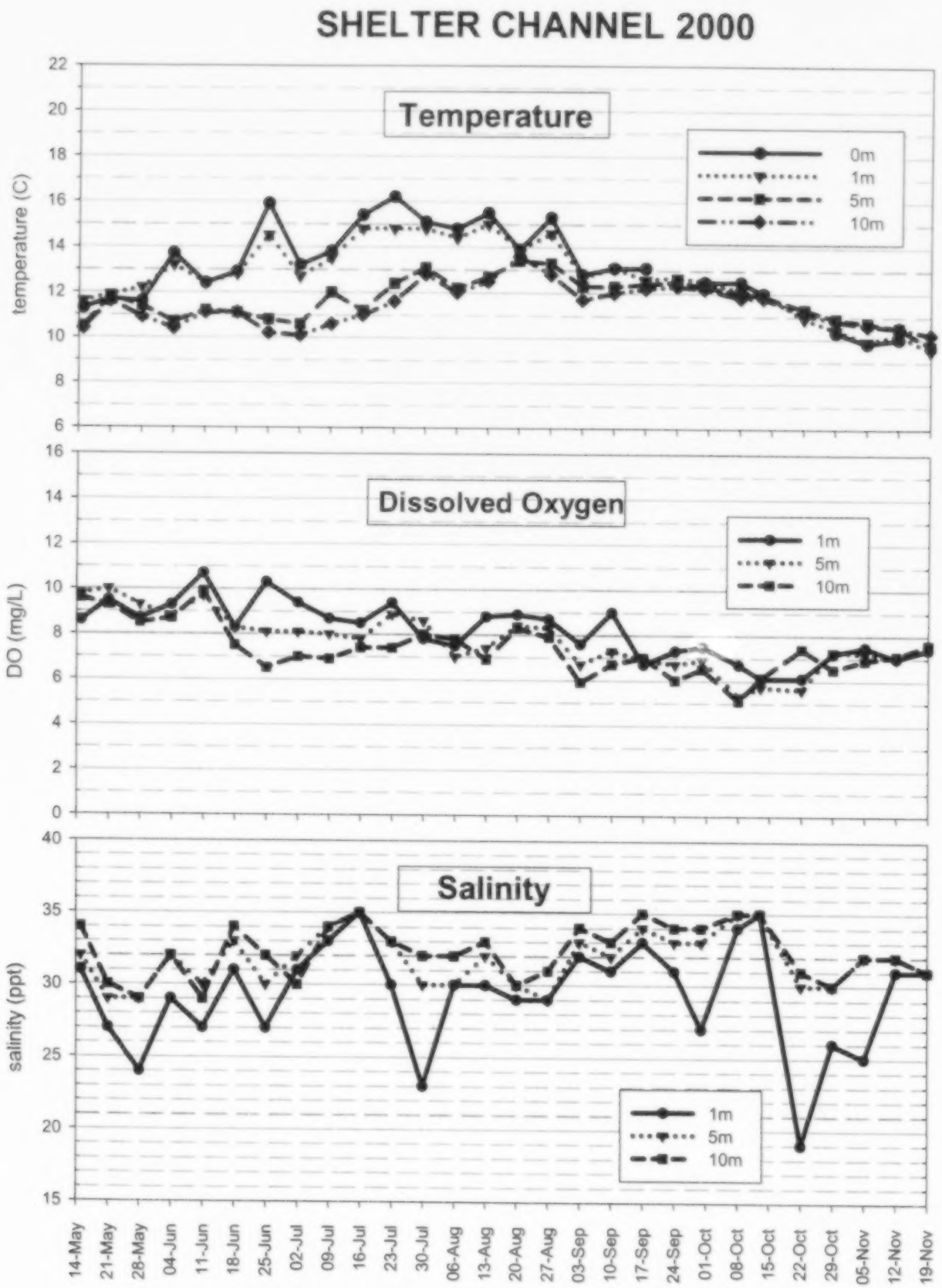

Figure 63: Environmental monitoring data for Shelter Channel.

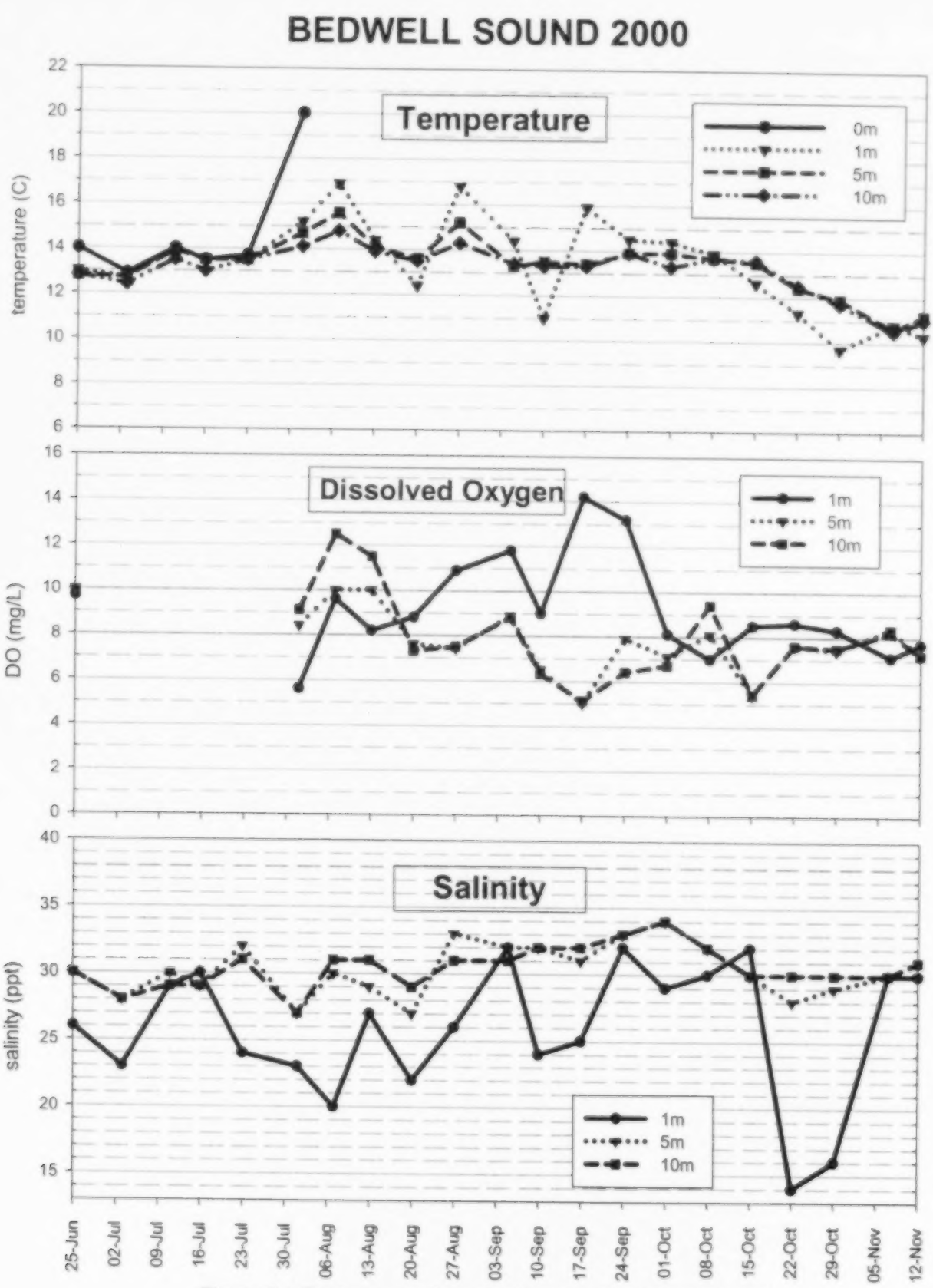

Figure 64: Environmental monitoring data for Bedwell Sound.

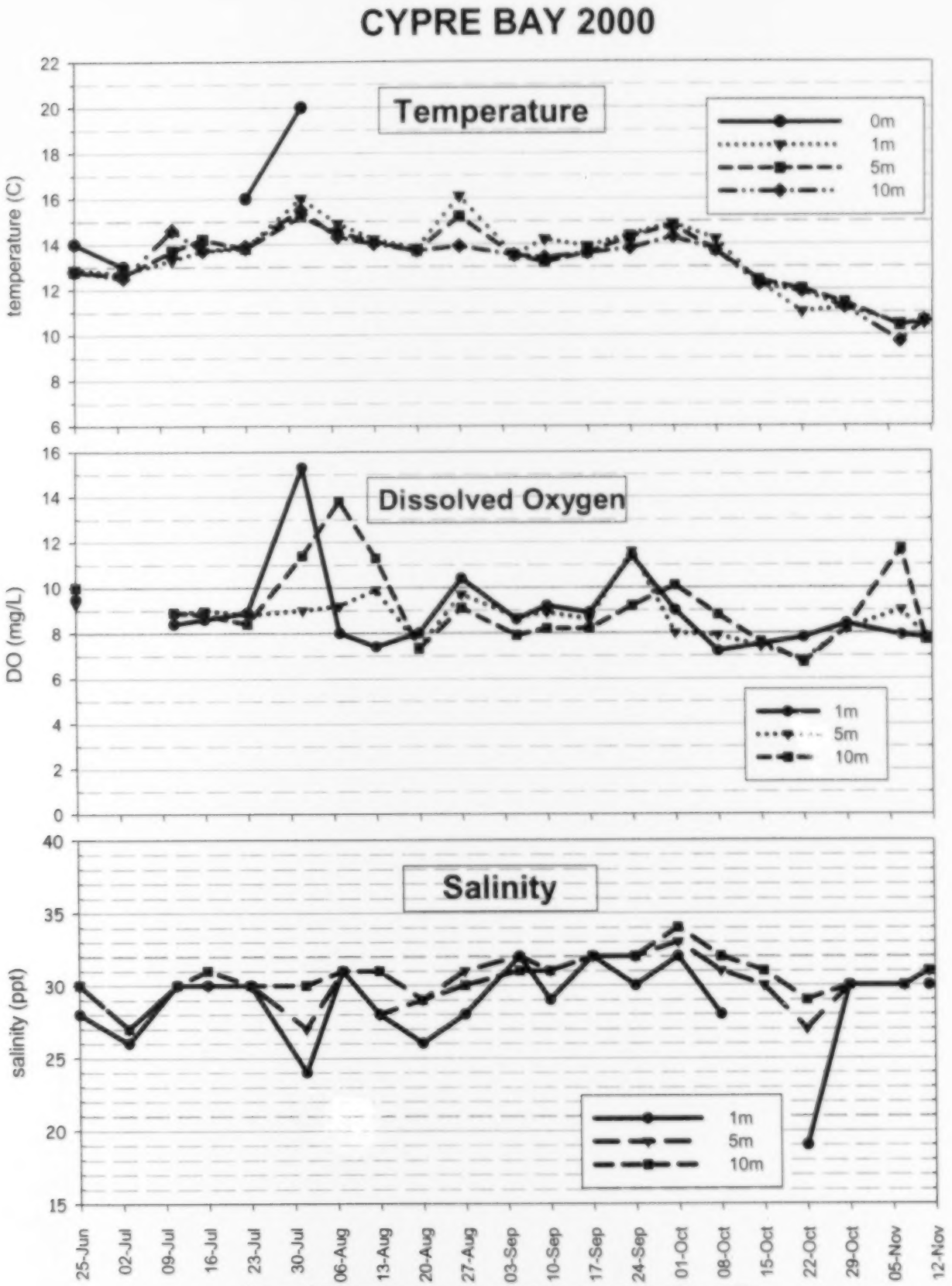

Figure 65: Environmental monitoring data for Cypre Bay.

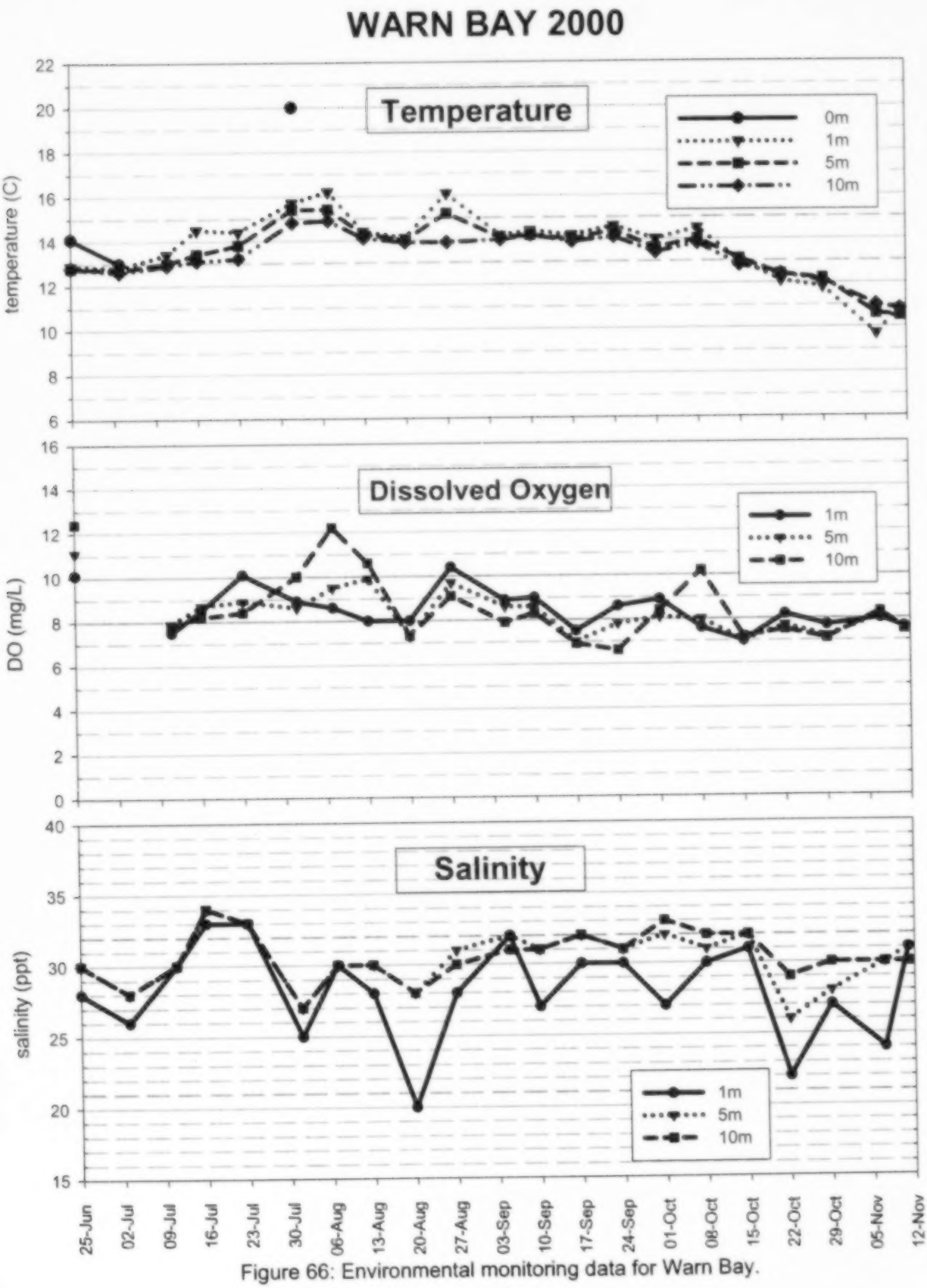

Figure 66: Environmental monitoring data for Warn Bay.

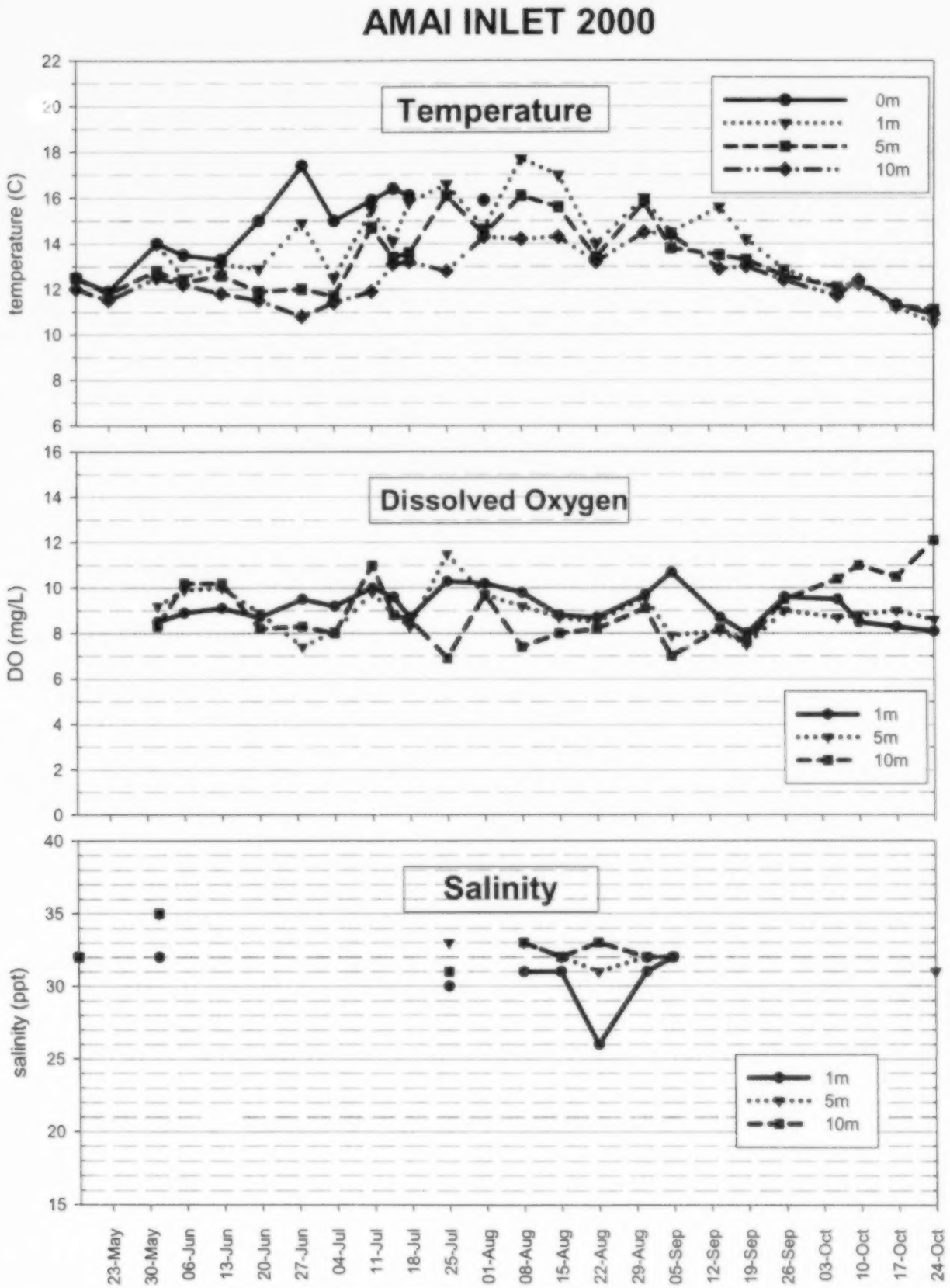

Figure 67: Environmental monitoring data for Amai Inlet.

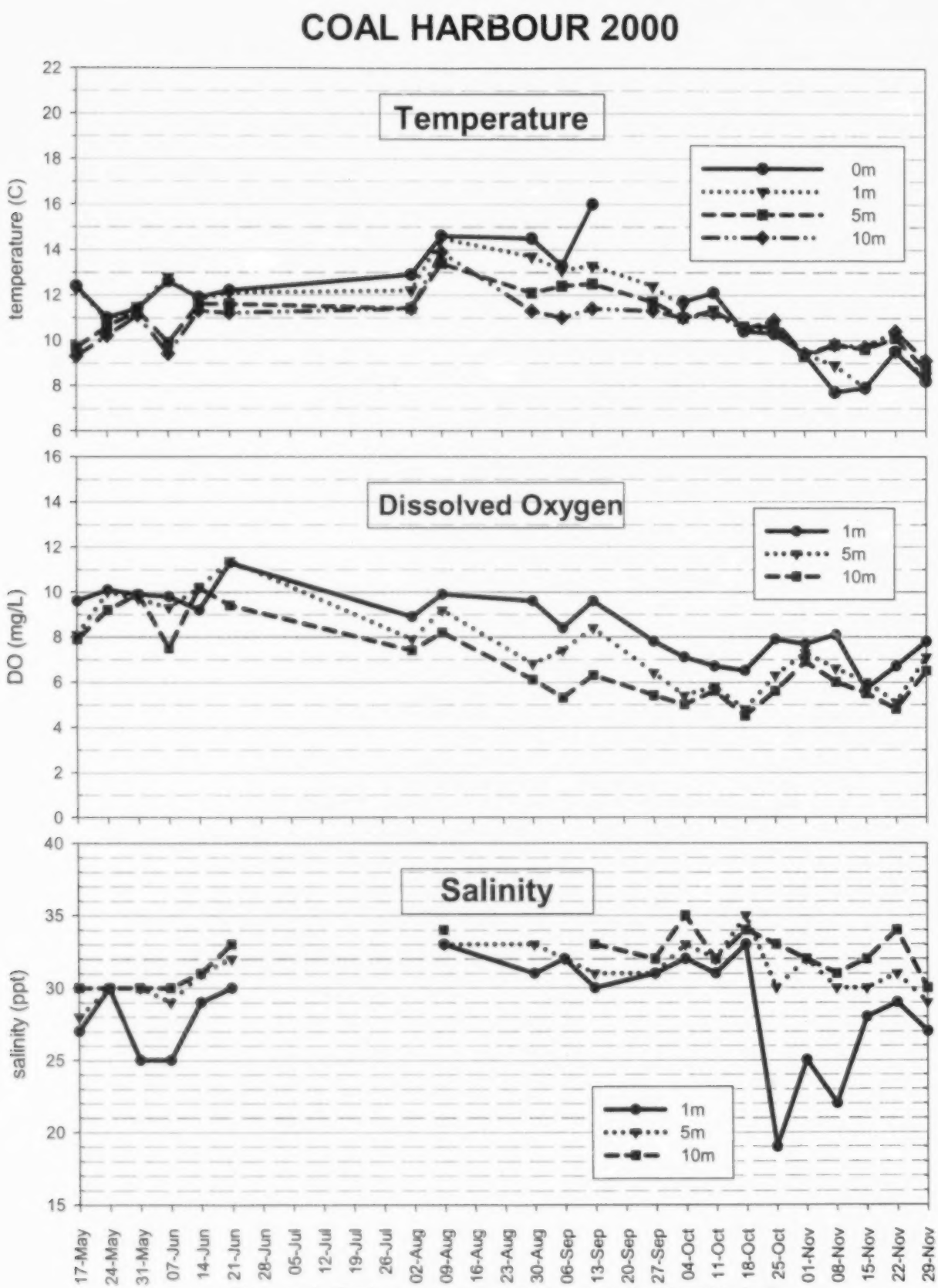

Figure 68: Environmental monitoring data for Coal Harbour.

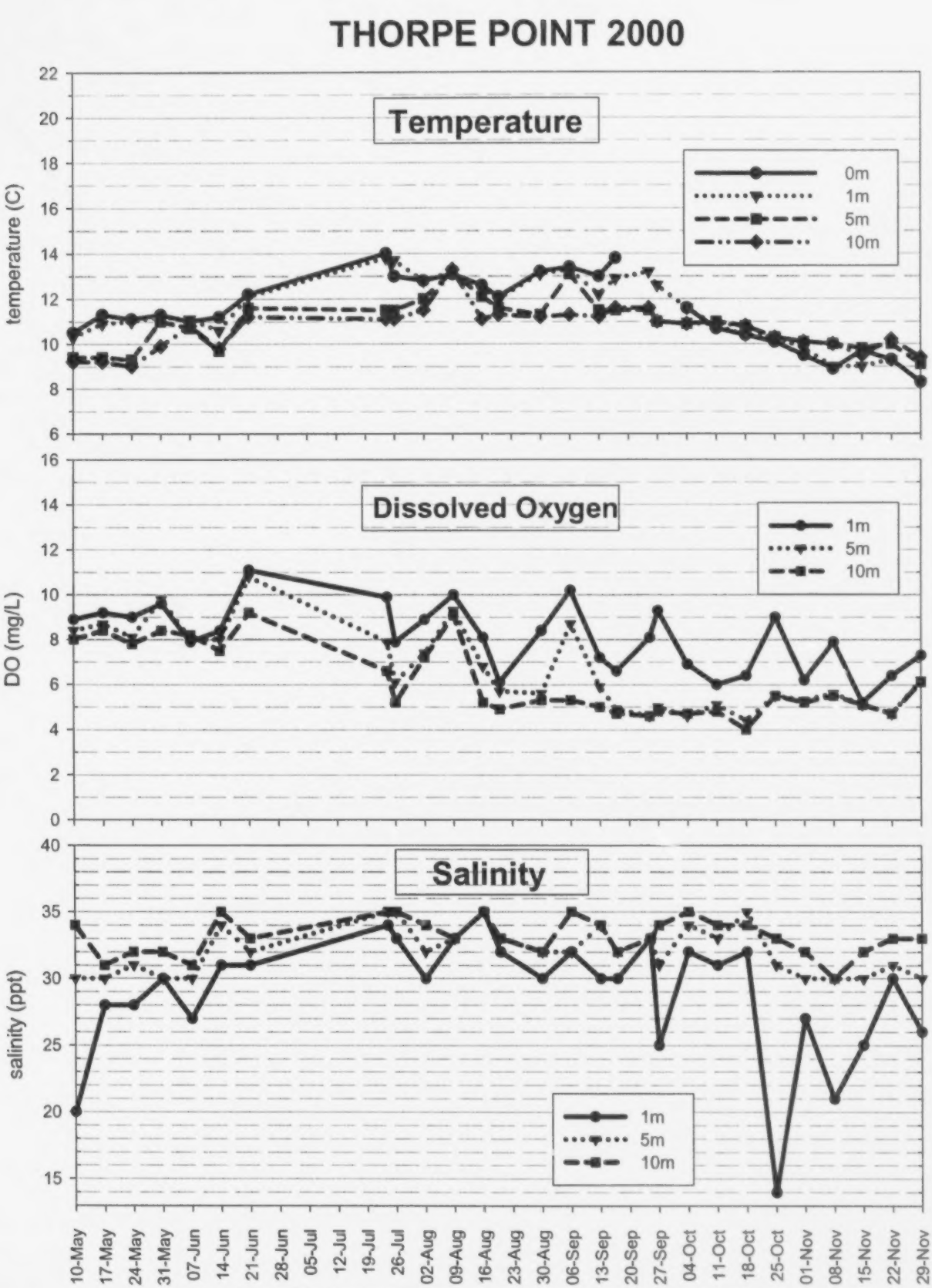

Figure 69: Environmental monitoring data for Thorpe Point.

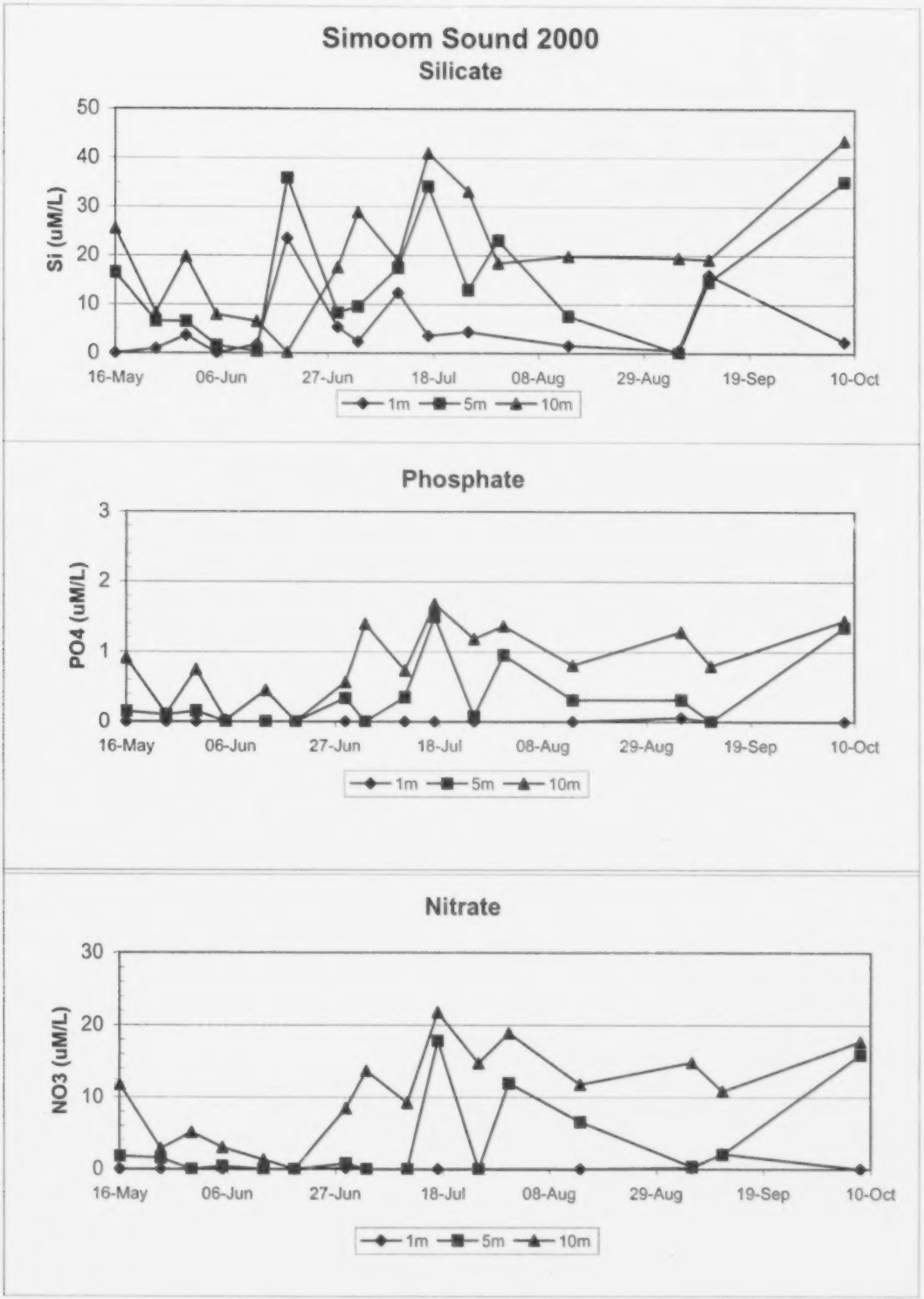

Figure 70: Nutrient concentrations in Simoom Sound samples.

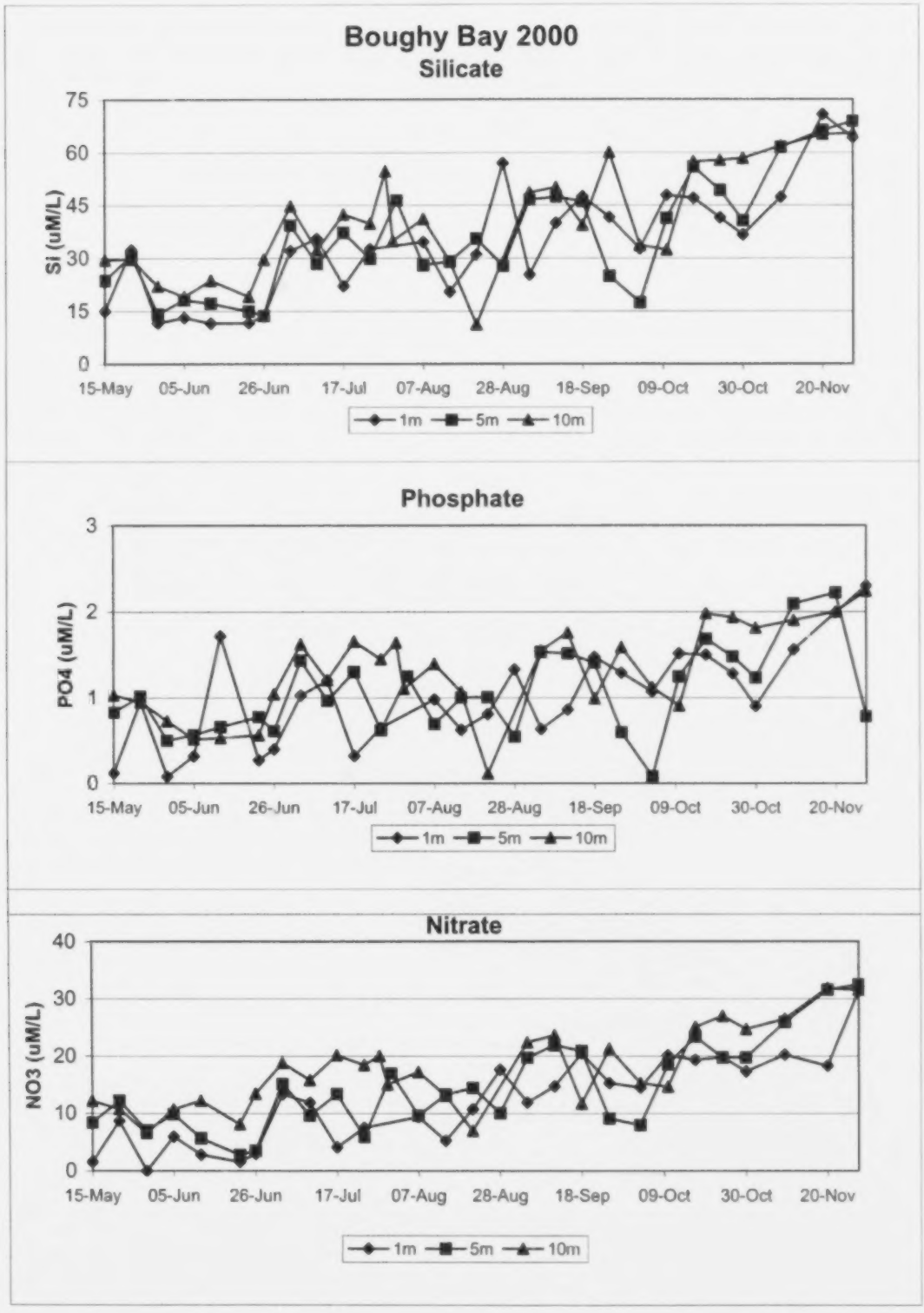

Figure 71: Nutrient concentrations in Boughy Bay samples.

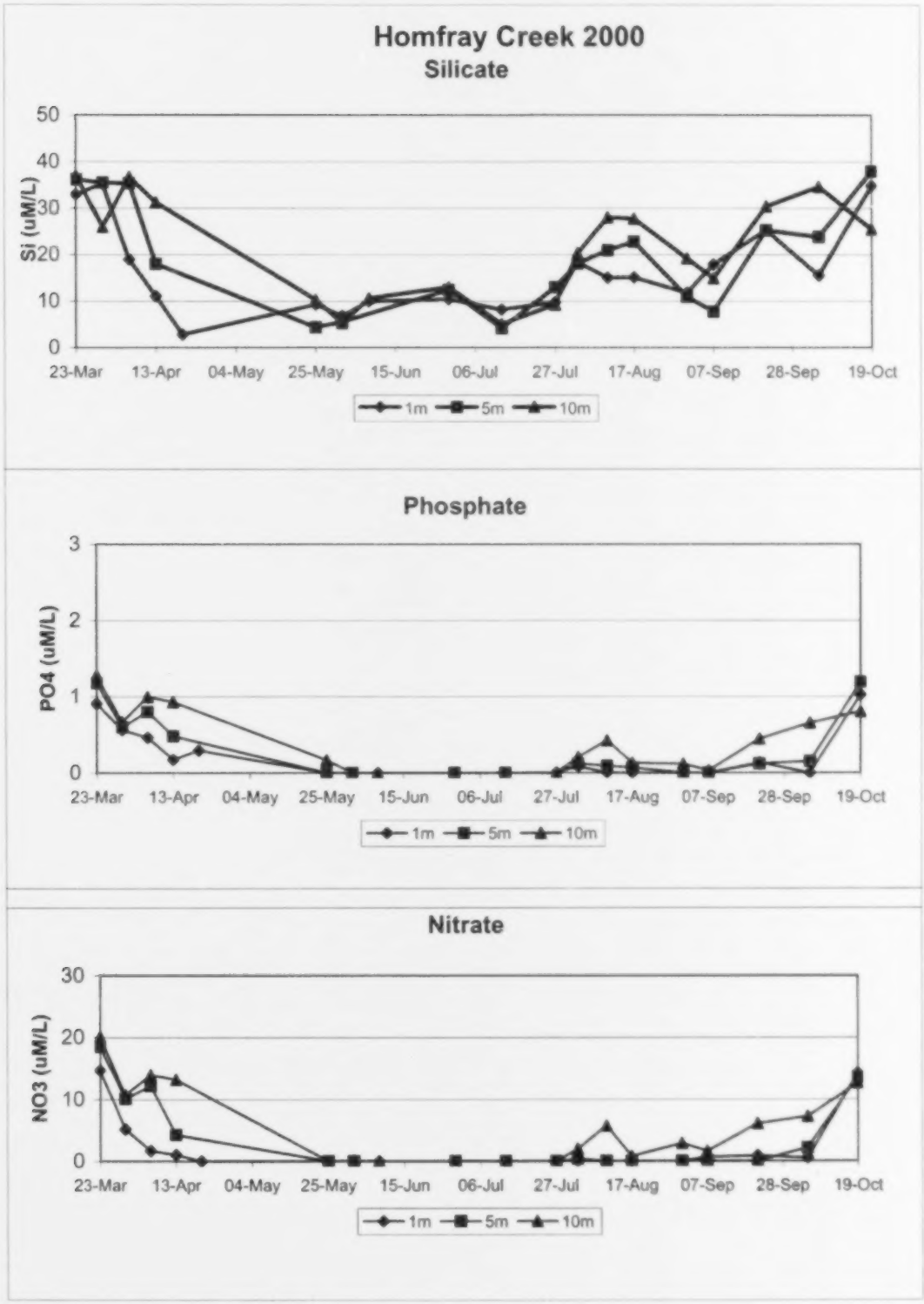

Figure 72: Nutrient concentrations in Homfray Creek samples.

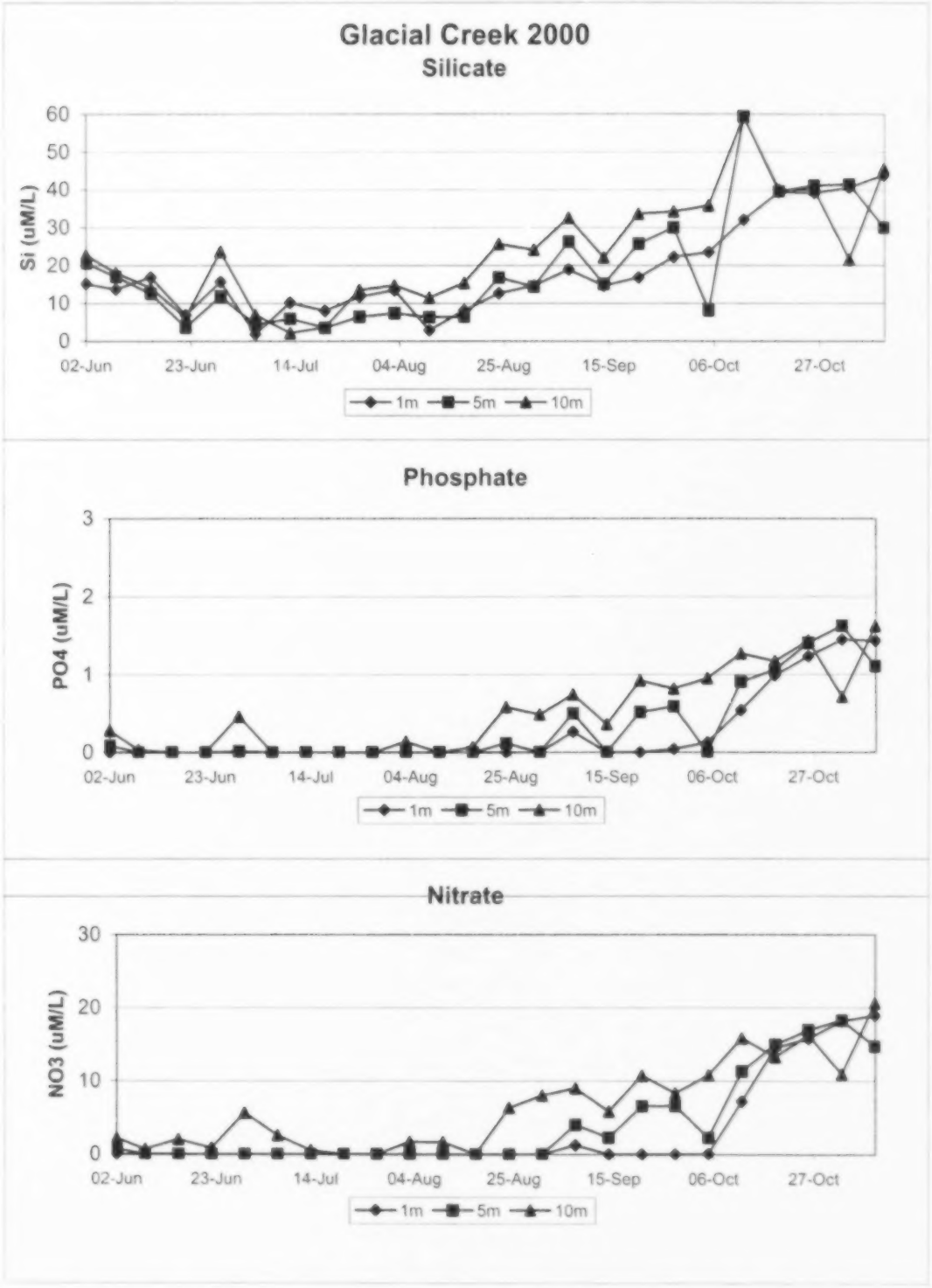

Figure 73: Nutrient concentrations in Glacial Creek samples.

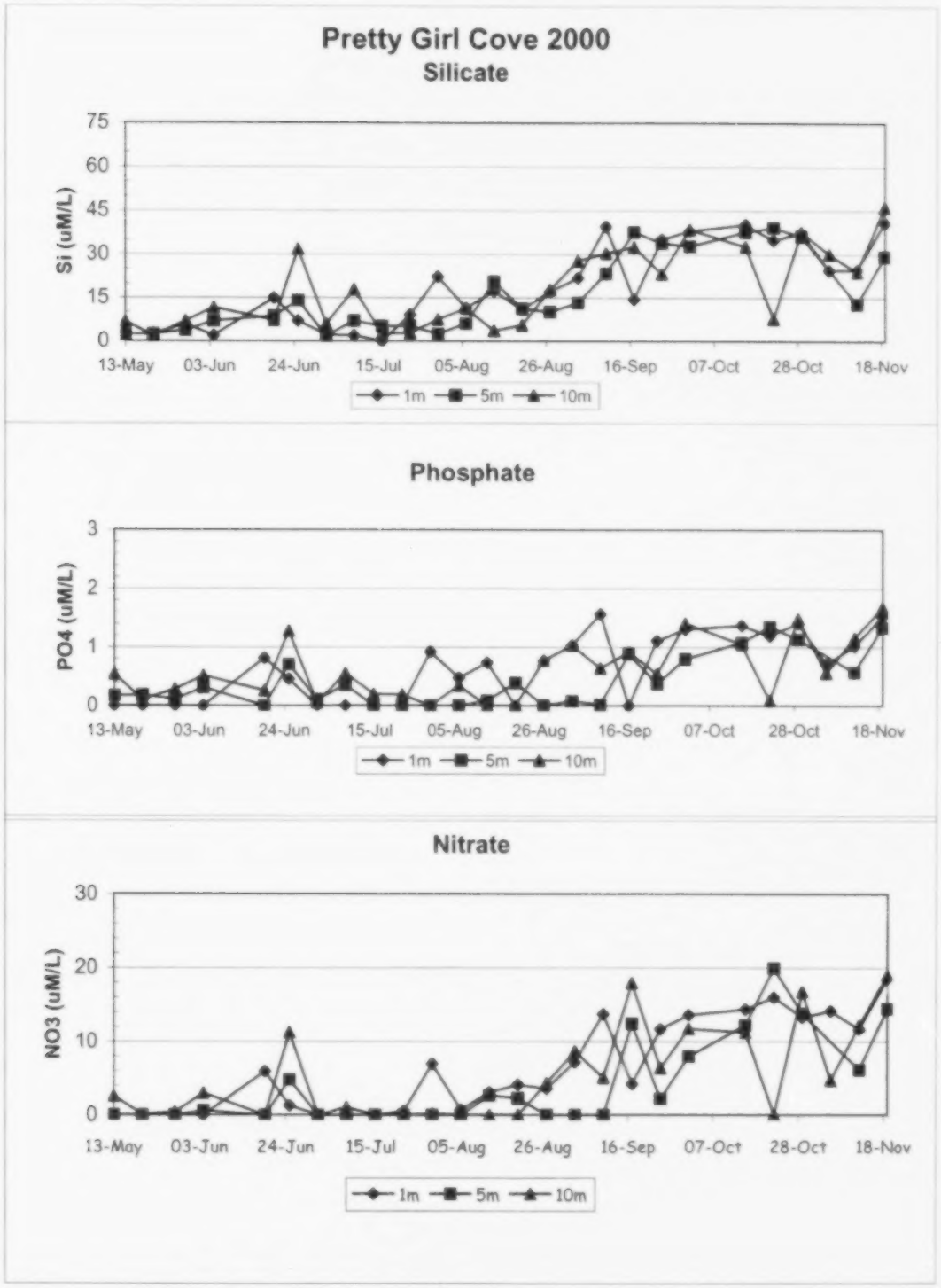

Figure 74: Nutrient concentrations in Pretty Girl Cove samples.

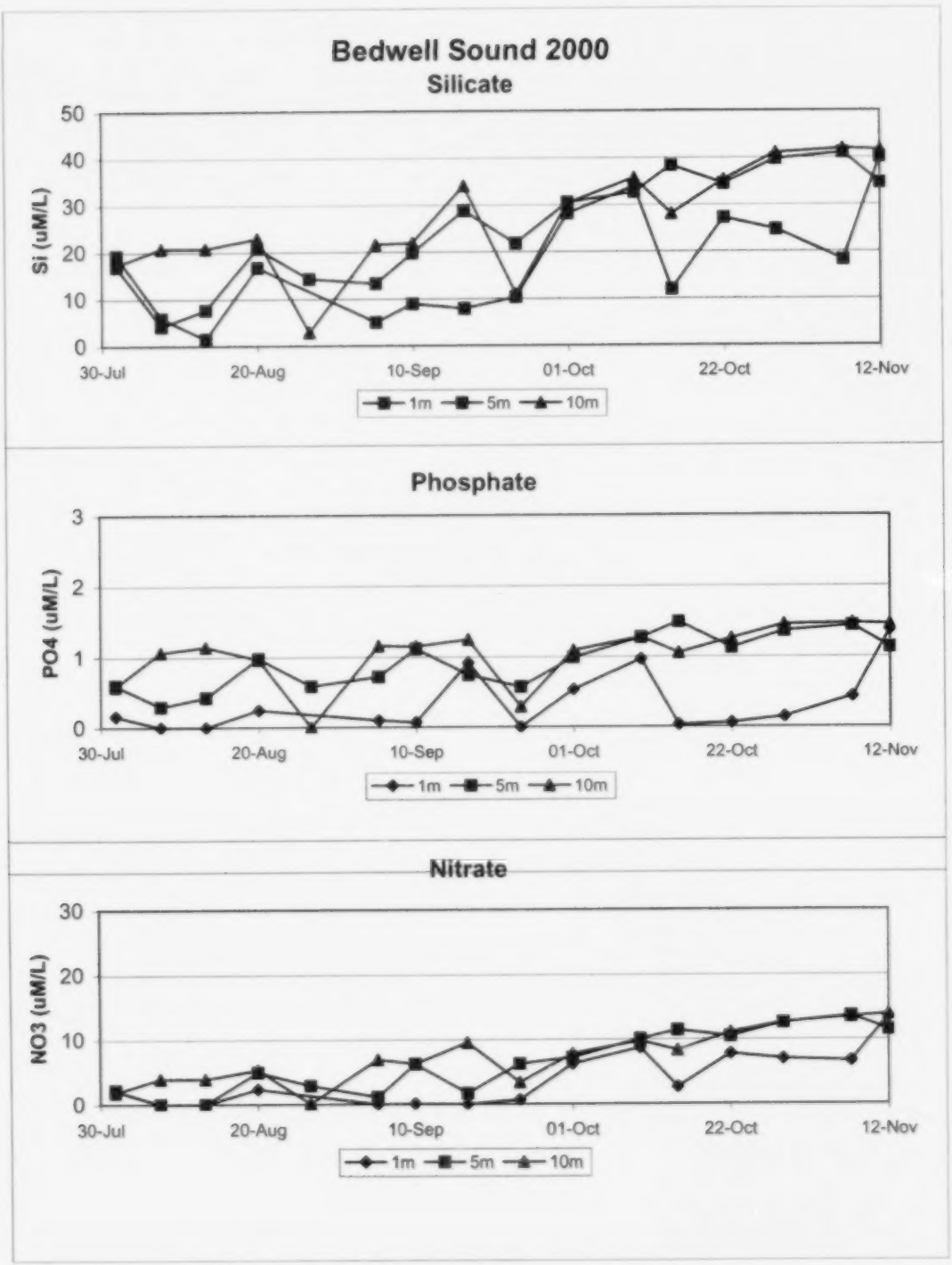

Figure 75: Nutrient concentrations in Bedwell Sound samples.

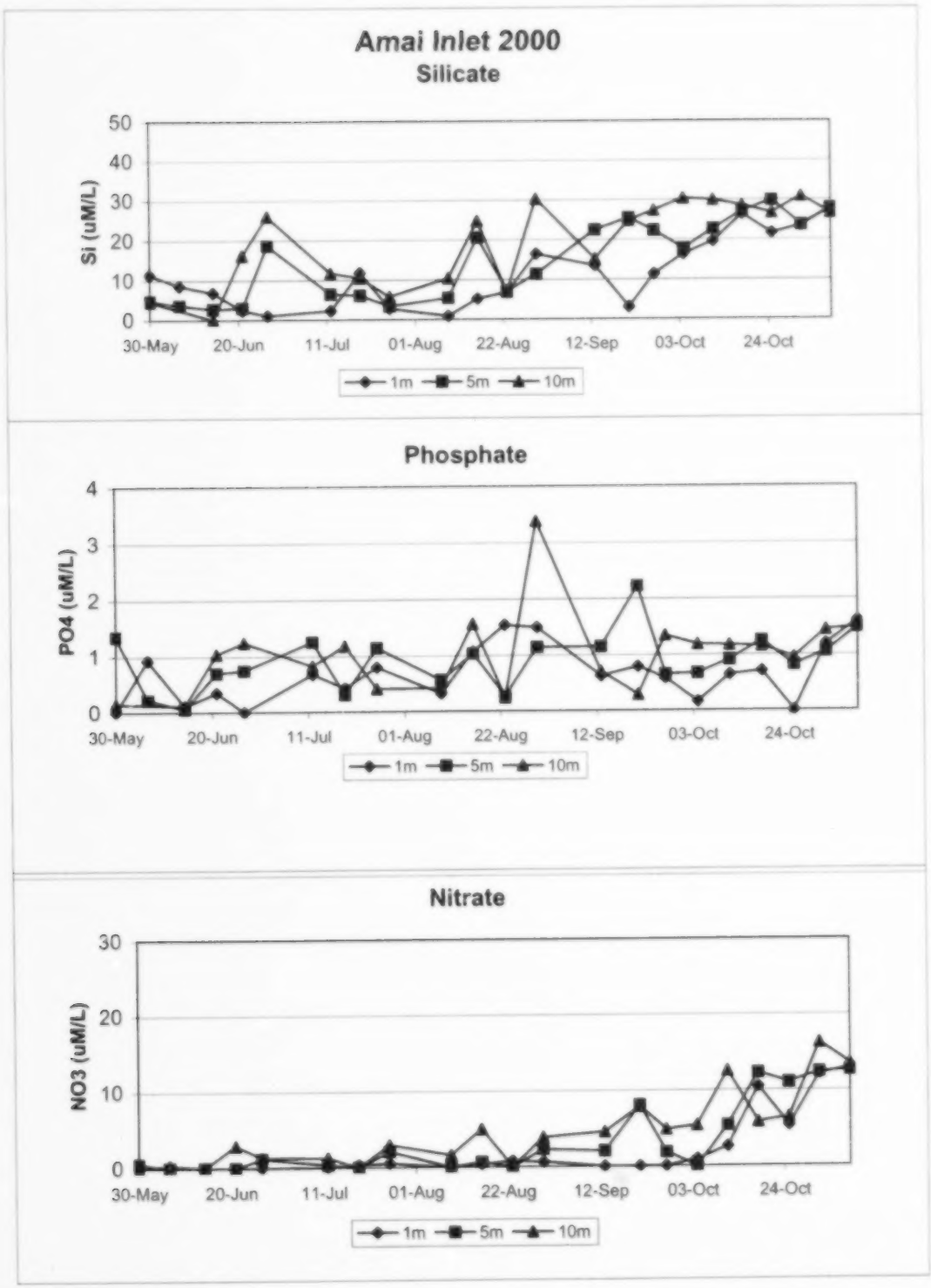

Figure 76: Nutrient concentrations in Amai Inlet samples.

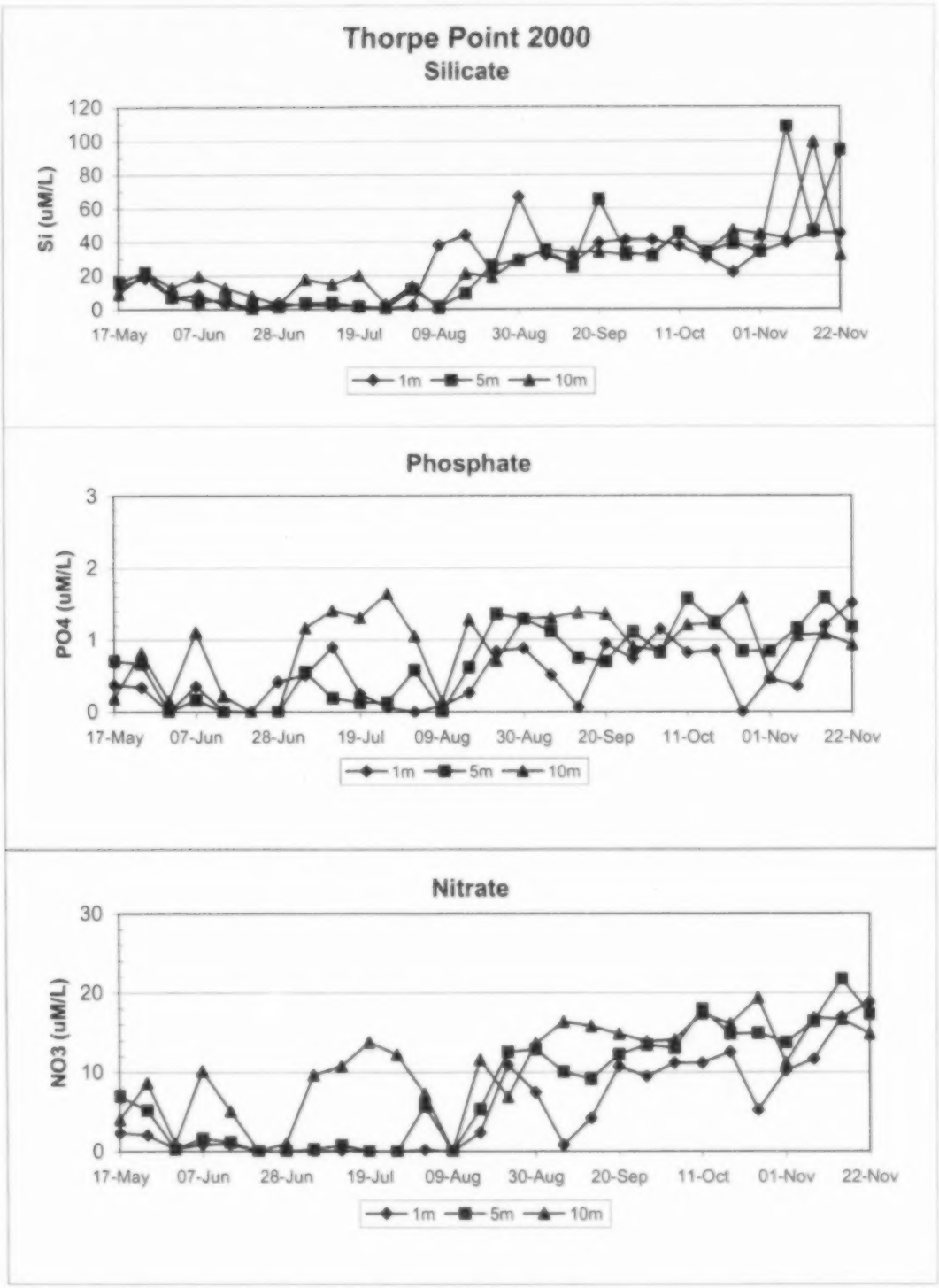

Figure 77: Nutrient concentrations in Thorpe Point samples.

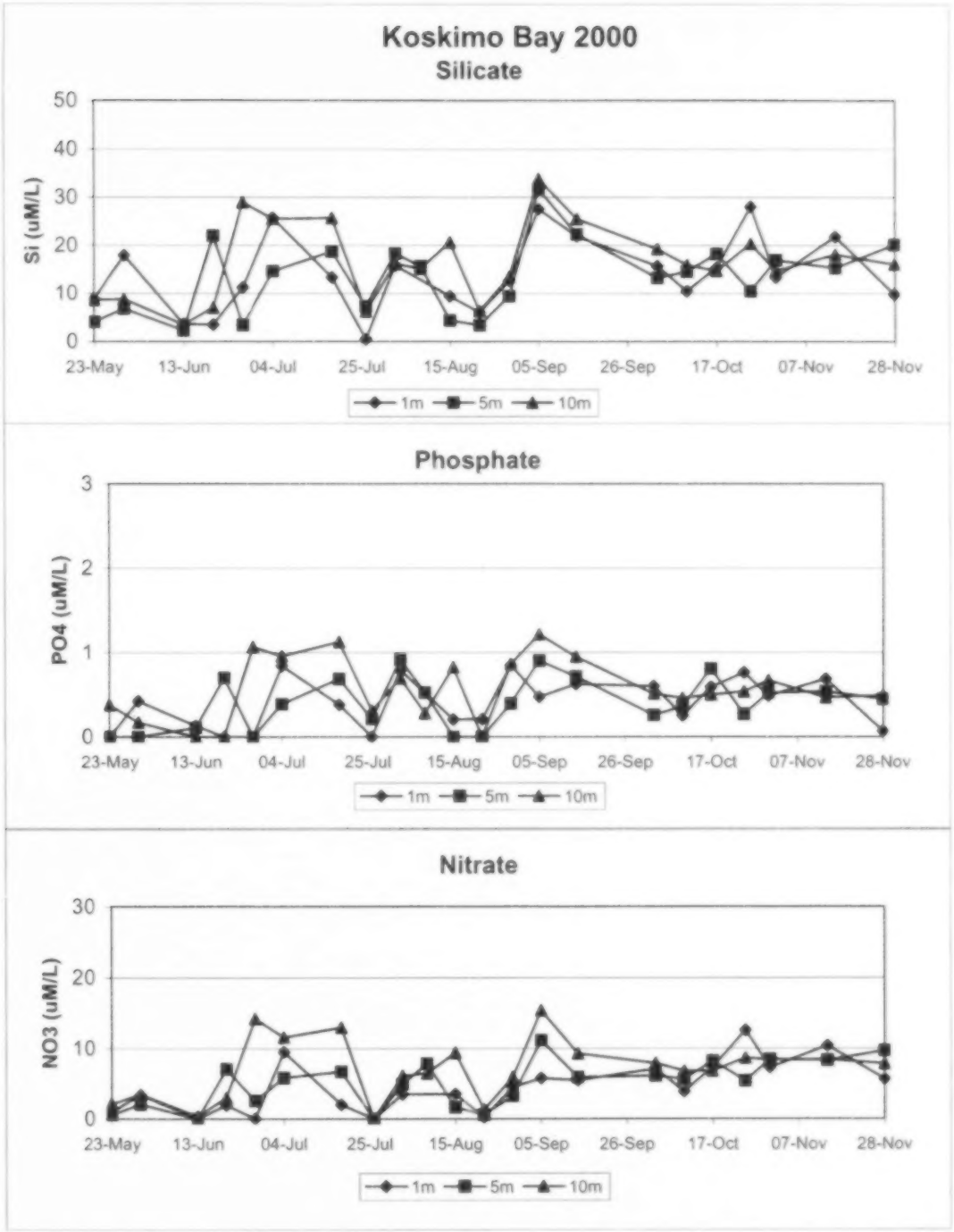

Figure 78: Nutrient concentrations in Koskimo Bay samples.